

Innovation In Air Distribution

**Setting the Industry Standard
for over 27 years**



2012 Catalog



Grade-D Air Filtration

Breathing Air Compressors

Air Cylinder Carts and Custom Trailers

Fire/Rescue Equipment

Confined Space Ventilation Products

HEPA Vacuums and Fume Extractors

Area Lighting Systems

The Systems Team

Quality Products Backed by our Experienced
Customer Service Department

Our dedicated family of safety specialists take the time to deliver the right solution to your application with our combined knowledge and expertise in the safety field.



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Senior Vice President
Sales & Marketing



Mick Bowden, V.P.
National Sales Manager



J.D. Jamison, V.P.
Production Manager



Marcey Ricucci
Senior Coordinator
Specialty Markets



Stephen Durr
Marketing Manager



Shane Intravatola, V.P.
Engineering



Patrick Ricucci
Quality Assurance
Manager



Amber Kerzanet
Repair Services
Coordinator



Mike Fugere
Inside Sales

Customer Commitment For over 25 Years

Air Systems International is committed to our customers' needs and special job requirements. We have always taken great pride in being responsive to the safety and health concerns of our equipment users.

The products that we manufacture have been developed out of a specific need or desire to perform work more safely and with greater productivity. We will always continue to respond to the demands and innovative ideas of our most valued asset –

OUR CUSTOMER

David F. Angelico, President



Andy Iannicelli
Inside Sales



Jan Gebelein
Order Entry
Administrator



Have a technical question? Skype Us!

Air Systems is now available to chat live to answer your questions via Skype. Add contact "AirTechLive". Please include your company name in the subject line to be added for live support.

**Monday through Friday
8 am - 5 pm EST**

On The Web And Social Networks

www.AirSystems.com

www.facebook.com/AirSystems

www.twitter.com/AirSystemsInt

www.youtube.com/user/AirSystemsInt





Innovative New Products



Products bearing the symbol **For Use in Hazardous Locations** are designed and approved for use in hazardous environments. For a complete listing of all products approved, please see the **Hazardous Locations Catalog** at www.airsystems.com

Innovative New Product Improvements



The Industry Standard for portable blowers for over 20 years has now been improved for our user's safety.

Air Systems **NEWLY DESIGNED** Centrifugal Blowers Feature a Tubular Steel Frame, Reduced Weight, Roll Cage Protected Components, Ergonomic Dual Carry Handles and upgraded safety and mechanical certifications.
See Pages 47, 51-52



Innovative Product Testing

Meeting OSHA's Requirements

We are always striving to provide the highest quality products with the user's safety as our number one priority. To that effort, our electrical products are submitted to a Nationally Recognized Testing Laboratory (NRTL) for third party certification per OSHA requirements, **29 CFR 1910.303(A) and 1910.7**.

We denote our certified products with the CSA, CSA C/US or UL logos.



Understanding Breathing Air Systems

To understand breathing air you **MUST** first understand the various types of NIOSH approved respirators available to meet the respiratory hazard.

All respirators are classified as either **Negative Pressure** or **Positive Pressure Respirators**.



Negative Pressure Disposable Mask Respirator

The respirator wearer must inhale through the mask. Approved for dusts, mists, vapors and fumes.

Not approved for IDLH use. (Immediately Dangerous to Life or Health)

Negative Pressure Disposable Cartridge Respirator

This style of Respirator has replaceable cartridges or filters and comes in half mask or full face.

Powered Air Purifying Respirators (PAPR) are a type of cartridge filtering respirator with a battery powered blower. They are approved for use where a filter cartridge is approved for the contaminant.

Note: Wearers must be fit tested to assure a proper face seal is achieved.



Not approved for IDLH use

Positive Pressure (Type-C) Airline Respirator - Constant Flow Hood Style



All constant flow respirators supply air continuously to maintain positive pressure inside the face piece or hood.

All airline respirators are classified by NIOSH as Type-C or Type-CE (approved for sandblasting).

Hood Style airline respirators are required by NIOSH to flow 6-15 cfm air flow per person.

Hoods are available in low pressure style for ambient air pumps, requiring 3-15 psi.

High pressure hoods, 25-110 psi, would require Grade-D breathing air provided by a Breather Box™.

No fit test is required with a hood style respirator

Not approved for IDLH use

Positive Pressure (Type-C) Airline Respirator - Constant Flow Mask

Positive Pressure respirators are available in half mask or full face and are required by NIOSH to flow 4-15 cfm per mask. They are available in low pressure style for ambient air pumps, requiring 3-15 psi.

High pressure style, 25-110 psi, would require Grade-D breathing air provided by a Breather Box™. Constant flow respirators provide higher Protection Factors than air-purifying negative pressure respirators. They are not recommended for use with high pressure bottled air systems as they consume a lot of air.



Not approved for IDLH use

Positive Pressure (Type-C) Airline Respirator - Pressure Demand Style



Pressure Demand (PD) respirators supply air "on demand" and maintain a minimum positive pressure in the face piece at all times and required by NIOSH to flow 4-15cfm to the mask just like a constant flow style respirator. Pressure demand respirators provide a high protection factor and can be used on high pressure cylinder air or low pressure filtration systems like a Breather Box™.

All PD respirators operate between 60-110 psi and require the use of Grade-D breathing air provided by a Breather Box™ or Grade-E cylinder air.

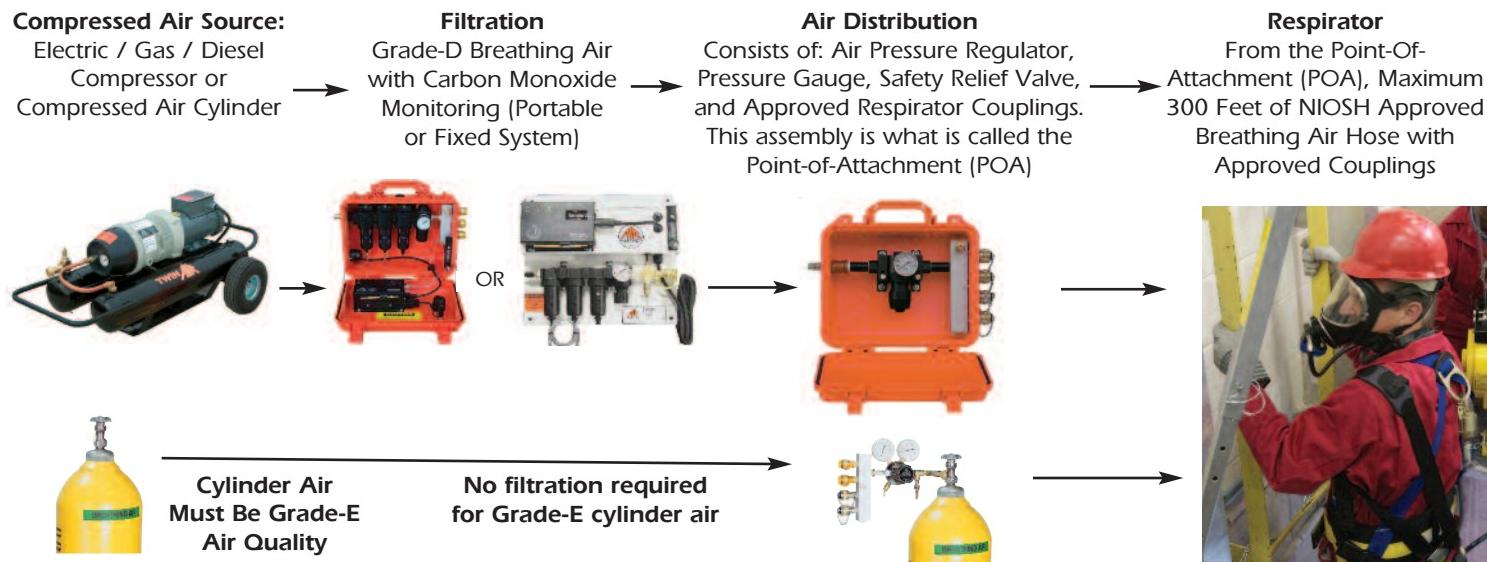
PD's with a five minute escape cylinder can be used in IDLH atmospheres



Elements of a Type-C / CE Breathing Air System

Note: Type-C / CE is a NIOSH designation for an air supplied breathing air respirator system. All airline respirators are Type-C or Type-CE. CE designates an airline respirator approved for abrasive blasting.

A Type-C system consists of the following components:



Sizing a Type-C / CE Airline Filtration System

Sizing of the filtration system, determining what size Breather Box™ or panel to order, is based on the air flow (CFM) and pressure requirements (PSI) of the respirators being worn and the number of workers. Air Consumption (CFM) and Pressure (PSI) ranges for representative types of respirators are listed below:

| | |
|------------------------------------|----------------------------|
| Pressure Demand | 4 - 15 cfm @ 60 - 120 psi |
| Constant Flow Half/Full Mask | 4 - 15 cfm @ 4 - 30 psi |
| Constant Flow Hood (Low Pressure) | 6 - 15 cfm @ 3 - 15 psi |
| Constant Flow Hood (High Pressure) | 6 - 15 cfm @ 25 - 110 psi |
| Vortex Cooling Tube (Option)* | 15 - 25 cfm @ 60 - 110 psi |

*If a vortex cooling or heating tube is used by the worker, the total air consumed is calculated by the air consumption of the vortex device.

Once the total number of workers are established and the type of respirator selected, multiply the number of workers by the respirator flow rate required per worker, to determine total flow requirements:

Example: 4 workers using 4 hood style respirators
4 x 15 cfm = 60 cfm required

Note: System pressure (PSI) will be determined by the device requiring the highest pressure in the system.

Filtration recommended: Air Systems' BB50-CO Breather Box™, 4-workers, with CO monitor (maximum flow capacity of 79 cfm). User must have enough compressor flow (cfm) capacity to supply the above respirators, plus additional air needs placed on the system, i.e. air tools/spray nozzles.

When ordering a Breather Box™, the customer **MUST** specify the fittings used on the respirator selected. The Breather Box™ fittings must be the same type as the respirator hose fittings to maintain NIOSH approval on the respirator and hose assembly.

All Air Systems' filtration products are designed to flow the maximum amount of air a worker's respirator could demand. NEVER undersize a filtration system.

What is Grade-D Air Quality?

Breathing air quality standards have been developed by ANSI/Compressed Gas Association (CGA) G-7.1 - 1989, and adopted by OSHA under their respiratory standard 29 CFR, 1910.134.

Air Quality Must Meet or Exceed The Following Requirements:

- Oxygen: 19.5%-23.5% (20%-22% Canada)
- Hydrocarbon (condensed oil) 5 mg/m³ maximum (<1Mg/m³ in Canada)
- Carbon Monoxide (CO): 10ppm maximum (5 ppm in Canada)
- Carbon Dioxide (CO₂): 1000ppm maximum (500 ppm in Canada)
- Odor: No noticeable tastes or smells
- Water Content:

High pressure cylinder air must have a dew point of at least -50°F (-45.6°C) at 1 atmosphere (14.7psi).

Low pressure breathing air must have a dew point of at least 10°F (5.56°C) below the ambient temperature at 1 atmosphere (14.7 psi)

Canada: 5° C below lowest temperature, 27 ppm maximum water vapor

- Total Volatile Hydrocarbons (Canada): 5 ppm maximum



Did You Know?

Our breathing air compressors and filtration systems meet all of the following specifications when used and serviced in accordance with our instruction manuals.

- Federal OSHA 29 CFR, 1910.134 "Compressor Operations for Breathing Air"
- CSA Z180.1-00 "Compressed Breathing Air and Systems"
- British Standard BS-EN 12021:1999 "Respiratory Protective Devices"

Air Systems' Grade-D Filtration Specifications:

- **1st Stage Filter** - Filter Change Indicator, Automatic Drain, Removes Liquids and Particulate to 5.0 micron Particle Size
- **2nd Stage Filter** - Filter Change Indicator, Automatic Drain, Provides Oil Coalescing and Ultra-fine Particulate Filtration to .01 micron Particle Size
- **3rd Stage Filter** - Filter Change Indicator, Manual Drain, Charcoal Removes Organic Vapors and Objectionable Odors
- In-Line Carbon Monoxide (CO) Monitor. Optional CO/0, Monitor
- All portable and fixed units are available with  approved intrinsically safe monitor for work in hazardous locations
- 2-year Warranty on Sensor and Entire CO Monitor
- Filter Change Indicator provided on all 3 filters (BB15-CO series has indicator installed on second stage only)
- Three Standard Power Options: Dual 9-Volt Battery, 8-16 VDC and/or 115 Volt AC, 60Hz (50Hz Optional)
- Safety Relief Valve set at 125 psi on outlet pressure
- Solid Aluminum Block Manifold with manual drain
- 0-160 psi Pressure Gauge
- Visual Flowmeter to Verify Air Flow to Monitor, adjustable flow rate, 50 -100cc
- External Mounted CO Warning LED Lights and Audible Alarm
- Remote DC Alarm Jack with Cover Cap are standard on portable units (Optional on Model BB15-CO Series). AC output supplied on all panel mount units
- Maximum Inlet Pressure - 150 psi
- All respirator couplings provided with safety lock feature
- All portable Air Systems' Breather Box™ filtration units are designed to be used in the closed position to prevent internal contamination

Air Systems' is so confident that you will be pleased with your portable or fixed breathing air filtration system, we will provide, at NO CHARGE, your first lab certified air quality test of your new Air Systems' breathing air filtration device or compressor system. Contact Customer Service for details.

What is Grade-E Air Quality?

Grade-E air quality is specified by ANSI/Compressed Gas Association (CGA) G-7.1 1997 for all compressed air stored in air cylinders, e.g., SCBA tanks or large breathing air cylinders.

Grade-E air quality is the same as Grade-D with the following differences:

- Oxygen content - 20%-22%
- Total Volatile Hydrocarbons - 25 ppm maximum
- Water Content - High pressure cylinder air must have a dew point of at least -50°F (-45.6°C) and a water vapor content of 67 ppm maximum. NFPA 1500 regulations for Fire Department use may vary from OSHA requirements
- Canadian standards for cylinder air may vary. Contact CSA for details

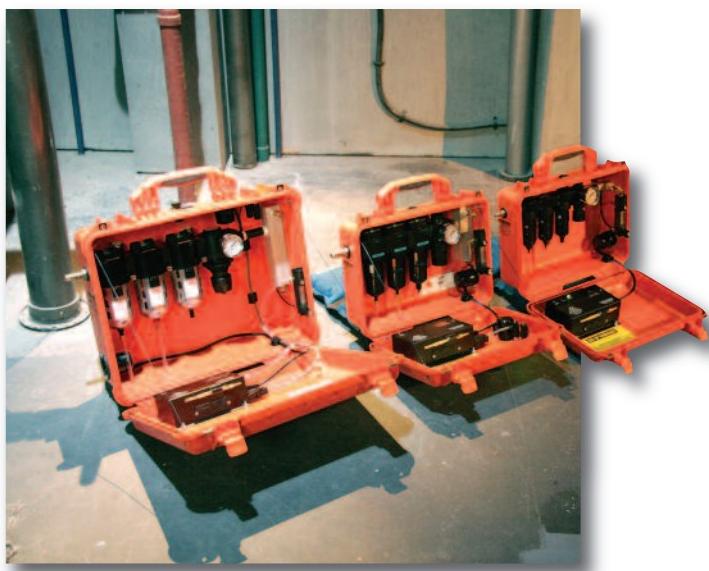


CO Monitor Specifications:

- Calibration: Less than 2 minutes
- Monitor display: LCD 3-digit readout
- Temperature range: 4 to 113 degrees F (-20 to 45 degrees C)
- Accuracy: +/- 1% of full scale
- Monitor range: 0-200 ppm CO (15-23% for optional O₂)
- Pressure range: 1-3 psi, flow 50-100cc
- Response: 90% of full scale in 10 seconds
- Sensor type: 3-electrode electrochemical with bias voltage
- Humidity range: 5% to 95% relative humidity
- Warranty: 2 years on entire unit and CO sensor (1 year on oxygen sensor)
- Alarm set point: 10ppm CO (5 ppm Canada)
- Voltage operation: 115 VAC, dual 9-volt DC battery, or 8-16 volt DC
- Test circuitry: manual push-to-test for sensor operation and alarms
- Shielding: internal RFI/EMI circuitry, aluminum case
- Warning indicators: low battery (amber), normal operation (green), high CO level (red) (LED indicators vary with model ordered)
- Output signals (standard): DC output on portables, AC output on panel versions
- Monitor case housing: black anodized aluminum
- Control panel standard features: inlet gas quick connect coupling, auxiliary 12 VDC jack, on/off/test switch, auxiliary/remote alarm jack, 115 VAC jack
- Dimensions: 7.0" L x 2.75" H x 5.1" W
- Weight: 2.1 lbs.

Intrinsically safe,  approved monitor available for hazardous locations

All filtration units are designed to flow the NIOSH maximum capacity per worker



Did You KNOW?

Sizing the filters correctly assures worker safety, comfort and extends filter life. All Air Systems' filtration systems are designed to flow the NIOSH maximum capacity per worker.

All Air Systems' filtration units are available with  approved intrinsically safe CO or CO/O₂ monitor for work in hazardous locations.

CO / O₂ Monitor

Available on all filtration models

- Dimensions: 9.5" L x 5.1" W x 2.75" H
- Weight: 2.8 lbs
- Dual display for CO and O₂ content
- Alarm set point: 19.5% O₂
- O₂ Range: 15-23%
- 1 year O₂ sensor warranty
-  approved model available



Model - CO2-91

Intrinsically Safe CO Monitor for use in Hazardous Locations



 Approved Intrinsically Safe Model - CO-91IS

Panel Mounted CO Monitor for Fixed Systems Continuous Sampling of CO and/or O₂ levels



CO-91PM

This durable carbon monoxide (CO) airline monitor panel can be ordered to retrofit any existing Grade-D breathing air system. It can be ordered with dual monitoring for CO and Oxygen (O₂) content. Units supplied with high intensity audible alarm and 115 VAC power cord. All units are powder coated steel and are ready for wall mounting. Available in  approved Intrinsically safe version, 9 VDC only.

| Model No. | Description |
|-----------|---|
| CO-91PM | Panel mounted CO monitor, 9 VDC and/or 115 VAC, audible alarm, visual lights, flowmeter, quick connect calibration fitting, LCD display |
| CO-91PMIS | Panel mounted intrinsically safe CO monitor, 9 VDC only,  approved for Class I, Division 1, Groups C and D environments, audible alarm, visual lights, flowmeter, quick connect calibration fitting, LCD display |
| CO2-91PM | Panel mounted carbon monoxide (CO) and oxygen (O ₂) monitor, simultaneously monitors for high CO and low O ₂ levels in breathing air with independent digital readout, audible alarm, visual lights, flowmeter, quick connect calibration fitting, LCD display |

see page 12 for calibration kit ordering information

Grade-D Filtration

Portable Systems - The Breather Box™

The Breather Box™

High Performance Portable Grade-D Breathing Air Filtration System

The Breather Box™ is a portable Grade-D filtration system designed to provide breathing air for a specific number of workers. The system filters incoming air from a compressor to provide respirator users with Grade-D quality air and monitors for CO and/or Oxygen.



The first stage element filters bulk water and particulate and has an auto drain. The second stage coalescing filter eliminates atomized oils, mists, ultra-fine particulates, and has an auto drain. The third stage filter removes organic vapors and odors and has a manual drain. Filter change indicators are standard on all three stages of filtration. Filtration efficiency is 99.99% @ .01 micron. All Breather Boxes™ are designed to be used in the upright and closed position to prevent internal contamination.

The standard carbon monoxide (CO) airline monitor operates on disposable 9-volt batteries, 8-16 volt DC, or 115 VAC for continuous air monitoring. An external audible alarm and light signals the workers of high CO content. A remote alarm jack is provided on all models except for Model BB15-CO. Point-of-Attachment (POA) boxes can extend respirator usage beyond 300 feet. See page 11 for additional details.



Intrinsically safe approved models available for Class I, Division 1, Groups C and D environments. Units are 9VDC operation only

| Model No. | Description |
|--|---|
| BB15-CO | 15 cfm Breather Box™, CO monitor - (30 cfm flow capacity) -1 coupling |
| BB15-CO2 | 15 cfm Breather Box™, CO monitor - (30 cfm flow capacity) - 2 couplings |
| BB30-CO | 30 cfm Breather Box™, CO monitor - (48 cfm flow capacity) - 2 couplings |
| BB30-CO3 | 30 cfm Breather Box™, CO monitor - (48 cfm flow capacity) - 3 couplings |
| BB50-CO | 50 cfm Breather Box™, CO monitor - (79 cfm flow capacity) - 4 couplings |
| BB75-CO6 | 75 cfm Breather Box™, CO monitor - (97 cfm flow capacity) - 6 couplings |
| BB100-CO | 100 cfm Breather Box™, CO monitor - (123 cfm flow capacity) - 4 couplings |
| BB100-CO6 | 100 cfm Breather Box™, CO monitor - (123 cfm flow capacity) - 6 couplings |
| BB100-CO8 | 100 cfm Breather Box™, CO monitor - (123 cfm flow capacity) - 8 couplings |
| BB150-CO | 150 cfm Breather Box™, CO monitor - (203 cfm flow capacity) - supplied with 3 each 1/2" sockets |
| Carbon Monoxide and Oxygen Monitoring | |
| BB30-COO2 | 30 cfm Breather Box™, CO/O ₂ monitor - (48 cfm flow capacity) - 2 couplings |
| BB50-COO2 | 50 cfm Breather Box™, CO/O ₂ monitor - (79 cfm flow capacity) - 4 couplings |
| BB100-COO2 | 100 cfm Breather Box™ CO/O ₂ monitor - (123 cfm flow capacity) - 4 couplings |
| Independent Regulators | |
| BB30-CO2R | 30 cfm Breather Box™ - (48 cfm flow capacity) - 2 couplings, 2 independent regulators & pressure gauges |
| BB50-CO4R | 50 cfm Breather Box™ - (79 cfm flow capacity) - 4 couplings, 4 independent regulators & pressure gauges |
| BB100-CO4R | 100 cfm Breather Box™ - (123 cfm flow capacity) - 4 couplings, 4 independent regulators & pressure gauges |

see page 12 for calibration kit ordering information

| Model No. | Description |
|------------|--|
| BB30-COIS | Intrinsically Safe |
| BB50-COIS | 30 cfm Breather Box™ Intrinsically Safe - (48 cfm flow capacity) 2 couplings |
| BB100-COIS | 50 cfm Breather Box™ Intrinsically Safe - (79 cfm flow capacity) 4 couplings |



Custom Designed Breather Box™ Options

- Clear View Windows
- Independent Regulators to allow different respirators and lengths of hoses to be used simultaneously
- Fully Automated Reserve Air System
- Low Pressure Alarms

Contact Customer Service for Details



Approved for Class I, Division 1, Groups C and D environments and are 9VDC operation only



Breathing Air Panels for Permanent Mounting Applications

Permanent mounted Grade-D filtration systems are designed to provide breathing air for a specific number of workers. The system filters compressor air to provide respirator users with Grade-D quality air. The first stage element filters bulk water and particulate, the second stage coalescing filter removes atomized oils and ultra-fine particulate, and the third stage removes organic vapors and odors. Filter change indicators are standard on all three filtration stages. Filtration efficiency is 99.99% @ .01 microns. A built-in carbon monoxide monitor operates on twin 9-volt DC, 115 VAC, or 8-16 VDC for continuous detection. A high intensity audible alarm and light signals the workers of high CO content in their breathing air. A 115 VAC electrical conduit box is provided as standard to provide AC power in and connection for AC powered remote alarms. Filtration components are mounted on a powder coated steel panel.

Did You Know?

- All portable and fixed breathing air filtration systems meet or exceed OSHA 1910.134, Canadian Z180.1 Breathing Air Standards and British Standard BS-EN 12021:1999 "RESPIRATORY PROTECTIVE DEVICES"
- All filtration units are designed to flow the NIOSH maximum capacity per worker
- Air Systems provides at NO CHARGE your first lab certified air quality test of your new breathing air filtration device. Contact Customer Service for details.



BB30-COPM
2 Worker Grade-D Filtration



BB15-COPM
Single worker Grade-D Filtration
16" W x 14.5" H x 5.25" D

| Model No. | Description |
|---|--|
| Standard Panels | |
| BB15-COPM | 15 cfm Grade-D breathing air panel with CO monitor (30 cfm flow capacity) - 1 coupling or NPT outlet* |
| BB30-COPM | 30 cfm Grade-D breathing air panel with CO monitor (48 cfm flow capacity) - 2 couplings or NPT outlet* |
| BB50-COPM | 50 cfm Grade-D breathing air panel with CO monitor (79 cfm flow capacity) - 4 couplings or NPT outlet* |
| BB75-COPM | 75 cfm Grade-D breathing air panel with CO monitor (97 cfm flow capacity) - 6 couplings or NPT outlet* |
| BB100-COPM | 100 cfm Grade-D breathing air panel with CO monitor (123 cfm flow capacity) - 4 couplings or NPT outlet* |
| BB150-COPM | 150 cfm Grade-D breathing air panel with CO monitor (203 cfm flow capacity) - NPT outlet* |
| BB250-COPM | 250 cfm Grade-D breathing air panel with CO monitor (741 cfm flow capacity) - NPT outlet* |
| *Consult Customer Service | |
| Carbon Monoxide and Oxygen Monitoring Panels | |
| BB30-CO2PM | 30 cfm Grade-D breathing air panel with CO/O ₂ monitor (48 cfm flow capacity) - 2 couplings or NPT outlet |
| BB50-CO2PM | 50 cfm Grade-D breathing air panel with CO/O ₂ monitor (79 cfm flow capacity) - 4 couplings or NPT outlet |
| BB100CO2PM | 100 cfm Grade-D breathing air panel with CO/O ₂ monitor (123 cfm flow capacity) - 4 couplings or NPT outlet |
| Auto-Air™ Option Panels | |
| BB30COAAPM | 30 cfm Grade-D Auto-Air™ breathing air panel with CO monitor - (48 cfm flow capacity) 2 couplings or NPT outlet |
| BB50COAAPM | 50 cfm Grade-D Auto-Air™ breathing air panel with CO monitor - (79 cfm flow capacity) 4 couplings or NPT outlet |
| B100COAAPM | 100 cfm Grade-D Auto-Air™ breathing air panel with CO monitor - (123 cfm flow capacity) 4 couplings or NPT outlet |

see page 12 for calibration kit ordering information

Please specify 1/4" Hansen style or Schrader style fittings when ordering.
Other fittings available for an additional charge.

| Model No. | Description |
|----------------------------------|--|
| Intrinsically Safe Panels | |
| BB15COPMIS | 15 cfm Grade-D breathing air panel with intrinsically safe CO monitor - (30 cfm flow capacity) - 1 coupling |
| BB30COPMIS | 30 cfm Grade-D breathing air panel with intrinsically safe CO monitor - (48 cfm flow capacity) - 2 couplings |
| BB50COPMIS | 50 cfm Grade-D breathing air panel with intrinsically safe CO monitor - (79 cfm flow capacity) - 4 couplings or NPT outlet |
| B100COPMIS | 100 cfm Grade-D breathing air panel with intrinsically safe CO monitor - (123 cfm flow capacity) - 4 couplings or NPT outlet |

Approved for Class I, Division 1, Groups C and D environments and are 9VDC operation only



Grade-D Filtration

Auto-Air™ Breather Box™

What Is an Auto-Air™ System?

If IDLH work environments exist, the Auto-Air™ Breather Box™ option should be considered. The Auto-Air™ filtration system was developed to provide Grade-D breathing air with full automatic reserve air in the event of either electrical failure or reduced pressure from the main air source while working in hazardous environments. Reserve air activation occurs at 60 psi and/or loss of electrical supply, the system automatically switches to the reserve air cylinder(s). Local and optional remote alarms signal the workers that the primary air system has failed and has switched to the back-up air system. This Auto-Air™ feature is offered in electric or pneumatic versions.

Note: *IDLH conditions require the use of a pressure demand respirator with at least a 5 minute escape cylinder. For technical questions, contact Air Systems' Customer Service Department.*

Did You KNOW?

NIOSH requires the use of a 5 minute airline escape respirator when working in IDLH environments. Our Auto-Air™ feature does not replace the NIOSH requirement, however, some work environments may require a 30-minute (or longer) airline escape method to safely egress the hazardous area. This situation would require the use of an Auto-Air™ Breather Box™ or Auto-Air™ Cart.

2 YEAR
WARRANTY
ON SENSOR &
MONITOR



Primary Air Line

Reserve Air Line



The primary air line connection is attached from the compressor to the Auto-Air™ Breather Box™. A reserve air line is attached from a single or bank of air cylinders based on the required egress duration and number of workers using the system.

The system can be tested prior to each use to ensure proper function of the Auto-Air™ system.

Always size the reserve air systems to allow an adequate safety factor for all workers to egress the environment.

The Auto-Air™ Breather Box™

Fully Automatic Reserve Air System for Work in IDLH Environments



BB50-COAA
STANDARD ELECTRIC VERSION



BB100COAAP
Fully Pneumatic System

with certified intrinsically safe CO monitor for use in hazardous location environments



Please specify 1/4" Hansen style or Schrader style fittings when ordering.
Other fittings available for an additional charge.

| Model No. | Description - Electric Versions |
|------------|---|
| BB30-COAA | 30 cfm Auto-Air™ Breather Box™ - (48 cfm flow capacity) - 2 couplings |
| BB50-COAA | 50 cfm Auto-Air™ Breather Box™ - (79 cfm flow capacity) - 4 couplings |
| BB100-COAA | 100 cfm Auto-Air™ Breather Box™ - (123 cfm flow capacity) - 4 couplings |

see page 12 for calibration kit ordering information

Contact Customer Service for Reserve Air Cylinders and Regulators

| Model No. | Description - Pneumatic Versions |
|------------|--|
| BB30-COAAP | Intrinsic Safety 30 cfm Intrinsically Safe Auto-Air™ Breather Box™ - (48 cfm flow capacity) - 2 couplings |
| BB50-COAAP | 50 cfm Intrinsically Safe Auto-Air™ Breather Box™ - (79 cfm flow capacity) - 4 couplings |
| BB100COAAP | 100 cfm Intrinsically Safe Auto-Air™ Breather Box™ - (123 cfm flow capacity) - 4 couplings |

Approved for Class I, Division 1, Groups C and D environments and are 9 VDC operation only



Grade-D Filtration

Auto-Air™ Cart



The Auto-Air™ Cart

The Auto-Air™ Cart provides a systems approach to breathing air filtration. The cart contains our Grade-D filtration unit, with either a pneumatic or electric reserve air system, and twin air cylinder storage. Choose a cart size based on the desired amount of reserve air needed to allow workers to safely egress the work area. Carts can operate with 2400 to 5000 psi cylinders.

The pneumatic version should be selected for hazardous work locations.



System mounted on
2300 series large
cylinder cart
B10023HTAP

Intrinsically Safe Auto-Air™ Cart

Complete Pneumatic Operation

Note: Intrinsically Safe (IS) CO monitors are approved for Class I, Division 1, Groups C and D environments and are 9VDC operation only

APPLICATIONS

- Refineries
- Chemical and Pharmaceutical Manufacturing
- Refueling Applications
- Tank Cleaning
- Fuel Cell Entry
- Grain Silo Entry

All lights and remote alarms are pneumatically operated and spark free. The intrinsically safe CO monitor is approved and operates on 9-volt DC batteries only.



The Auto-Air™ Cart

Standard Electric Model

Applications

- Confined space entry
- Hazardous material handling
- Boiler cleaning operations
- Nuclear work
- Fuel cell maintenance
- Tank entry and cleaning

All HTAA Series Standard Carts
Hold Two 87 or 60 CF Air Cylinders.
Large Cylinder Carts
Pictured are for Long Duration
Applications.

System mounted on
small cylinder cart



The custom Auto-Air™ Cart, pictured left, utilizes our Ergo-Air® Cart frame. The unit holds two large storage air cylinders and provides ease of mobility for use in plant air operations. Any size Auto-Air™ Breather Box™ can be added to the Ergo-Air® Cart frame.

Consult Customer Service to design a cart to meet your application



Please specify 1/4" Hansen style or Schrader style fittings when ordering.
Other fittings available for an additional charge.

| Model No. | Description |
|------------|---|
| BB30-HTAA | 30 cfm Auto-Air™ Small Cart - requires 115 VAC (48 cfm flow capacity) - 2 couplings |
| BB50-HTAA | 50 cfm Auto-Air™ Small Cart - requires 115 VAC (79 cfm flow capacity) - 4 couplings |
| BB100HTAA | 100 cfm Auto-Air™ Small Cart - requires 115 VAC (123 cfm flow capacity) - 4 couplings |
| BB100-23AA | 100 cfm Auto-Air™ Large Cart - requires 115 VAC (123 cfm flow capacity) - 4 couplings |

Intrinsically Safe

| | |
|------------|---|
| BB30-HTAAP | 30 cfm Intrinsically Safe Auto-Air™ Small Cart - (48 cfm flow capacity) - 2 couplings |
| BB50-HTAAP | 50 cfm Intrinsically Safe Auto-Air™ Small Cart - (79 cfm flow capacity) - 4 couplings |
| BB100HTAAP | 100 cfm Intrinsically Safe Auto-Air™ Small Cart - (123 cfm flow capacity) - 4 couplings |
| B10023HTAP | 100 cfm Intrinsically Safe Auto-Air™ Large Cart - (123 cfm flow capacity) - 4 couplings |

see page 12 for calibration kit ordering information

Approved for Class I, Division 1, Groups C and D environments and are 9 VDC operation only



Grade-D Filtration

Blast-Air™ Cart



The Blast-Air™ Cart

Designed for the Commercial Sandblasting, Paint and Coatings Industry

The Blast-Air™ Cart has been designed to meet the demanding needs of the sandblast and coatings industry. The Blast-Air™ 50 pictured is our standard 4 worker Breather Box™ mounted on a BA-1CAA pre-filter cart. Air can be supplied to the cart from mobile or plant air compressors and pre-filtered through high capacity water, oil, and particulate separators located on the rear of the rugged steel cart. These pre-filters automatically drain large amounts of oil and water discharged from a compressor before it enters the Breather Box™. This process will extend the filter life of the Breather Box™ and reduce maintenance downtime and costs.



BA-50

Specifications:

- Dual 300 cfm Cart Mounted Pre-Filters with Automatic Drains
- 1st Stage Filter** w/ Filter Change Indicator, Removes Bulk Water and Particulate, 5.0 micron
- 2nd Stage Filter** w/ Filter Change Indicator, Coalescing Oil and Ultra-fine Particulate Filtration, .01 micron
- 3rd Stage Filter** w/ Filter Change Indicator, Charcoal Removes Organic Vapors and Objectionable Odors, .03 micron
- Automatic Drains in 1st and 2nd Stage Filter Assemblies; manual drain on 3rd Stage
- 2-year Warranty on CO Sensor and Monitor
- In-Line Carbon Monoxide (CO) Monitor with optional CO/O₂ Monitor - Intrinsically Safe CSA Approved Models available
- Electro-chemical Sensor for Specific Gas Detection and Rapid Calibration in less than 2 minutes
- Dual 9-Volt Battery Operation, 8-16 VDC and/or 115 Volt AC
- Safety Relief Valve set at 125 psi
- Solid Aluminum Block Manifold with manual drain
- 0-160 psi Pressure Gauge
- Visual Flowmeter to Verify Air Flow to Monitor
- External Case Mounted CO Warning Lights and Audible Alarm
- Remote DC Alarm Jack with Cover Cap, standard
- Maximum Inlet Pressure - 150 psi
- All respirator couplings provided with safety lock feature

Cart Dimensions: 40" H x 20" W

Weight: 42 lbs



Please specify 1/4" Hansen style or Schrader style fittings when ordering.
Other fittings available for an additional charge.



| Model No. | Description |
|-----------|--|
| BA-30 | 30 cfm Breather Box™ installed on the Blast-Air™ Cart (48 cfm flow capacity) - 2 couplings |
| BA-50 | 50 cfm Breather Box™ installed on the Blast-Air™ Cart (79 cfm flow capacity) - 4 couplings |
| BA-100 | 100 cfm Breather Box™ installed on the Blast-Air™ Cart (123 cfm flow capacity) - 4 couplings |
| BA-100-6 | 100 cfm Breather Box™ installed on the Blast-Air™ Cart (123 cfm flow capacity) - 6 couplings |
| BA-100-8 | 100 cfm Breather Box™ installed on the Blast-Air™ Cart (123 cfm flow capacity) - 8 couplings |
| BA-1CAA | Blast-Air™ cart only with rear filters and connect hose - customer mounts existing Breather Box™ |
| BB100-A | Pre-filter replacement element for Blast-Air™ Cart, rear filters |

see page 12 for calibration kit ordering information

Portable CO Monitoring Intermittent or Continuous Sampling

This portable airline monitor connects easily to a breathing air filtration source or ambient air pumps and monitors the air for CO content. The audible alarm (90 dBA) and light will activate when the CO level exceeds 10ppm (5ppm Canadian). External alarm and lights allow for the unit to be used in the closed position and eliminates damage and contamination of the internal components.

Specifications:

- Operates on 9-volt batteries, 8-16 VDC, and/or 115 VAC
- Connector kit includes 1/4" Industrial Interchange coupling supplied on 5ft. hose
- Standard alarm jack allows for connection to remote alarm devices
- Standard version allows air pressures up to 150psi
- Available in high pressure version up to 6000psi for fill compressors
- Optional high intensity alarm
- Available in  approved Intrinsically safe version, 9 VDC only
- Consult page 4 for complete monitor specifications



CO91-14LAC
Portable CO Monitor

Did You KNOW?

Alarm set point is set at 10 ppm in compliance with U.S. and International standards.
Specify 5 ppm for Canadian operation.

Applications

- Portable filter pots
- Filter systems
- Ambient air pumps
- Equipment Rentals
- Retro-fit old style compressors and filtration systems

| Model No. | Description |
|------------|---|
| CO91-14LAC | Portable CO monitor, 9 VDC and/or 115 VAC, 5ft. hose, 150psi maximum inlet pressure |
| CO91-14HAC | Portable CO monitor, 9 VDC and/or 115 VAC, 5ft. hose, rated for 5000psi maximum pressure, includes 6000psi regulator and 5ft. hose |
| CO-91 LACG | Portable CO monitor with built-in calibration gas cylinders, 150psi maximum, includes calibration gas and regulator |
| CO-91 HACG | Portable CO monitor with built-in calibration gas cylinders, rated for 6000psi maximum pressure, includes calibration gas and regulator |
| CO2-91 LAC | Portable CO/O ₂ monitor, 9 VDC and/or 115 VAC, 5ft. hose, 150psi maximum inlet pressure |

| Model No. | Description - Intrinsically Safe |
|-----------|--|
| CO91-14IS | Portable Intrinsically Safe CO monitor, 9 VDC only,  approved for Class I, Division 1, Groups C and D environments, audible alarm, visual lights, flowmeter, quick connect calibration fitting, LCD display |

See page 12 for calibration kit ordering information



For Use in Hazardous Locations



Remote Air Manifolds

Point of Attachments (POA)

A remote air manifold is often called a Point-of-Attachment (POA). All of our remote air manifolds meet NIOSH requirements of the 87-116 (1989) document for point-of-attachment.

The Point-Of-Attachment (POA) series provides remote manifold capability for respirator users, while complying with NIOSH regulations. The POA consists of a regulator, pressure gauge, safety relief valve, and fitting congruity necessary for proper respirator operation. The POA box can be located any distance from the Grade-D filtration Breather-Box™ or filtration panel. The remote air manifold (POA) assembly becomes the NIOSH attachment point for the respirators and is now limited to a maximum 300 feet of breathing air hose at the air outlet fitting on the remote POA box.



POA-4



Did You KNOW?

Using POA units, you can move the NIOSH point-of-attachment for airline respirators closer to the worker.

POA units can be used in hazardous locations.

POA-XWM



Replace "X" in part number for the required number of fittings

Wall Mounted POA Manifold

- Available from 1-8 outlets
- Adjustable regulator
- Pressure gauge (0-160 psi)
- Safety relief valve - set at 125 psi
- Aluminum block manifold
- Use with plant compressor systems, see page 23-24

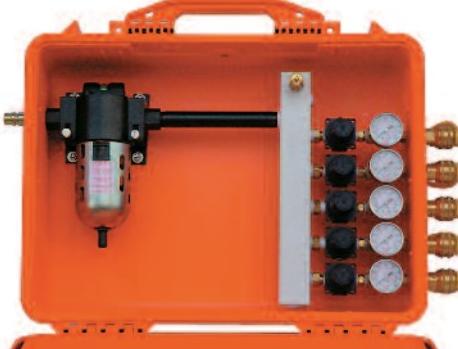
POA-4R



Independent Regulator
POA Manifold

Four independent regulators allow each worker to adjust their desired pressure depending on the style of respirator and length of hose.

POA-5RF



Independent Regulator
POA Manifold with Final Filtration

Five independent regulators allow each worker to adjust their desired pressure depending on the style of respirator and length of hose. Final filtration is added to remove water and particulates in plant air piping systems.

| Model No. | Description |
|-----------|--|
| POA-4 | Standard POA Box - 4 couplings |
| POA-4R | POA Box with 4 independent regulators |
| POA-4F | POA Box with final particulate filter |
| POA-4RF | POA Box with final particulate filter and 4 independent regulators |
| POA-X | POA Box, replace "X" in part number for the required number of fittings |
| BBM-4LF | "NRC" POA Box, final particulate filter, 4 independent regulators, low pressure warning alarm and lights (a clear gauge viewing window is optional) - Not for Hazardous Locations |
| POA-XWM | Wall mounted POA manifold, replace "X" in part number for the required number of fittings |

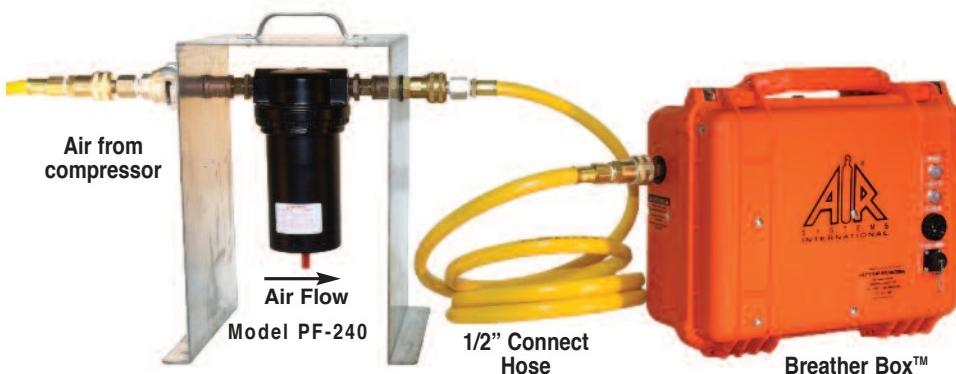
Please specify 1/4" Hansen style or Schrader style fittings when ordering.
Other fittings available for an additional charge.

Custom Designed POA Options

- Clear view windows
- Multiple filters and regulators
- Stainless steel or aluminum cases
- Low pressure warning alarms
- Models available for 1 - 8 workers

Contact Customer Service for Details

Portable Pre-Filter



Designed for use with compressors discharging a large volume of oil and water.
Ideal for use in humid climates.

- High capacity 300 cfm bulk filtration and moisture removal - 200 psi rated with metal bowl
- Automatic drain assembly
- Use after compressor and before Grade-D Breather Box™ filtration unit
- Galvanized steel frame with carry handle
- Supplied with 1/2" Chicago fitting on inlet, 1/2" industrial interchange socket on outlet

| Model No. | Description |
|-----------|--|
| PF-240 | High capacity portable compressor prefilter with stand, 300 cfm capacity, 1/2" Chicago inlet, and 1/2" 5000 series Hansen socket outlet, includes auto drain |
| BB100-A | Replacement particulate filter for PF-240 |

Replacement Filters for Breather Boxes™ and Filtration Panels



BB30 Series Filters

BB15 Series

- BB15-AW Replacement particulate filter - Stage 1
- BB15-CW Replacement coalescing filter - Stage 2
- BB15-DW Replacement charcoal filter - Stage 3
- BB15-FK Filter kit for BB15-CO series models
Contains 1 ea. "A", "C", and "D" replacement filter

Note: For all BB15 Series units purchased prior to 12/1/04 consult Customer Service for correct ordering information

BB30 Series

- BB30-A Replacement particulate filter - Stage 1
- BB30-C Replacement coalescing filter - Stage 2
- BB30-D Replacement charcoal filter - Stage 3
- BB30-FK Filter kit for BB30-CO series models
Contains 1 ea. "A", "C", and "D" replacement filter



BB50 Series Filters

BB50 Series

- BB50-A Replacement particulate filter - Stage 1
- BB50-C Replacement coalescing filter - Stage 2
- BB50-D Replacement charcoal filter - Stage 3
- BB50-FK Filter kit for BB50-CO series models
Contains 1 ea. "A", "C", and "D" replacement filter



BB100 Series Filters

BB75 Series

- BB75-A Replacement particulate filter - Stage 1
- BB75-C Replacement coalescing filter - Stage 2
- BB75-D Replacement charcoal filter - Stage 3
- BB75-FK Filter kit for BB75-CO series models
Contains 1 ea. "A", "C", and "D" replacement filter

BB100 Series

- BB100-A Replacement particulate filter - Stage 1
- BB100-C Replacement coalescing filter - Stage 2
- BB100-D Replacement charcoal filter - Stage 3
- BB100-FK Filter kit for BB100-CO series models
Contains 1 ea. "A", "C", and "D" replacement filter

Note: For replacement filters not listed, contact Customer Service.

Did You KNOW?

In order to maintain Grade-D air quality, filters must be changed on a regular basis



BBK-20

BBK-20103

Monitor calibration should be done monthly or whenever the reading may be questionable. Use only Air Systems' gas concentration or an inaccurate calibration may occur.

Did You KNOW?

Airline Monitor Calibration Kits

| Model No. | Description |
|----------------------------|---|
| BBK-20 | Calibration kit for CO monitor - 20 ppm CO, zero air, regulator, tubing, and hard case - 17 liter size disposable cylinders |
| BBK-10 | Calibration kit - same as above with 10 ppm CO gas for Canadian calibration |
| BBK-20103 | Large Calibration Kits Large calibration kit includes 20 ppm CO, zero air, regulator, pressure gauge, tubing, and hard case - 103 liter size disposable cylinders |
| BBC-00 BBC-20 BBC-02 | Replacement Cylinders 17 Liter replacement cylinder, zero air 17 Liter replacement cylinder, 20ppm CO 17 Liter replacement cylinder, 20.9% O ₂ in nitrogen |

Breathing Air Hose & Accessories

| Model No. | Description |
|-----------|--|
| | 3/8" Hose 6 ft. 3/8" breathing air hose 10 ft. 3/8" breathing air hose 25 ft. 3/8" breathing air hose 50 ft. 3/8" breathing air hose 100 ft. 3/8" breathing air hose 300 ft. 3/8" breathing air hose Polyethylene Hose Cover - fits 3/8" or 1/2" Hose - 600' Roll |
| | 1/2" Hose 6 ft. 1/2" breathing air hose 10 ft. 1/2" breathing air hose 50 ft. 1/2" breathing air hose 100 ft. 1/2" breathing air hose 300 ft. 1/2" breathing air hose Polyethylene Hose Cover - fits 3/8" or 1/2" Hose - 600' Roll |
| | 3/4" Hose 25 ft. 3/4" breathing air hose 50 ft. 3/4" breathing air hose 100 ft. 3/4" breathing air hose |
| | Whip Check Safety Cable Whip check safety cable - fits 1/2" to 1 1/2" hose - 20" Whip check safety cable - fits 1" to 2 1/2" hose - 28" Whip check Hose to Hose - fits 1 1/2" to 3" hose - 38" Whip check Hose to Tool - fits 1/2" to 1 1/4" hose - 20" Whip check Hose to Tool - fits 1 1/2" to 3" hose - 38" |
| | |



Please specify Hansen style or Schrader style fittings when ordering. Other fittings available for an additional charge.



Quick Connect Couplings

• Hansen • Schrader • Parker • Snap-Tite • National • Perfecting • CEJN • Chicago • Breco
* Specify size and type when ordering breathing air systems and hoses

CEJN Plug Hansen Plug Schrader Plug Chicago Coupling Snap-Tite Plug Hansen S.S. HK Plug



CEJN Coupling Hansen Coupling Schrader Coupling Chicago Coupling Snap-Tite Coupling Hansen S.S. HK Coupling

*A complete guide to understanding quick connect couplings to assist you in the proper size and selection.
See page 22.*

Breathing Air Hose Reels

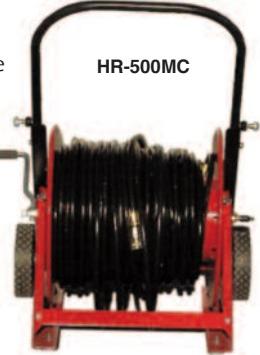
All reels can be supplied with hose installed. Hose reels can be mounted on roller carts. Consult Customer Service for details.

Note: Breathing air hose must be ordered separately

| Model No. | Description |
|---|--|
| HR-50 | Automatic Rewind Hose Reels - 3/8" Hose (150 psi max) Automatic hose reel, holds 50' of 3/8" ID breathing air hose with automatic retracting and multi-position installation |
| HR-50SS | Stainless steel automatic hose reel, holds up to 50' of 3/8" ID breathing air hose with automatic retracting and multi-position installation |
| HR-50POA | NIOSH point of attachment automatic hose reel, holds 50' of 3/8" ID breathing air hose with installed regulator, pressure gauge, and safety relief valve - use with NIOSH approved respirator hose |
| HR-100 | Automatic hose reel, holds 100' of 3/8" ID breathing air hose with automatic retracting and multi-position installation |
| HR-505 HR-575 | Automatic Rewind Hose Reels - 1/2" Hose (250 psi max) Holds up to 50' of 1/2" ID breathing air hose with auto retracting and multi-position installation Holds up to 75' of 1/2" ID breathing air hose with auto retracting and multi-position installation |
| HR-100M HR-400M HR-550M HR-500MC | Manual Hose Reels (250 psi max) Manual hose reel, holds 100' of 3/8" ID hose or 50' of 1/2" ID breathing air hose Manual hose reel, holds 400' of 3/8" ID hose or 200' of 1/2" ID breathing air hose Manual hose reel, holds 550' of 3/8" ID hose or 300' of 1/2" ID breathing air hose Manual hose reel cart with fold down handle, holds 400' of 3/8" or 300' of 1/2" ID breathing air hose |
| HPR-350 HPR-300M | High Pressure Hose Reels (6000 psi max) Auto hose reel, holds 50' of 1/4" ID high pressure air hose Manual hose reel, holds 300' of 1/4" ID high pressure air hose |



When ordering hose reels for use with NIOSH approved hose, order HR-50POA or contact Customer Service.



Remote Alarms



Remote alarms act as a valuable warning device for the isolated worker and allows him to make a safe egress when a system fault alarm occurs.

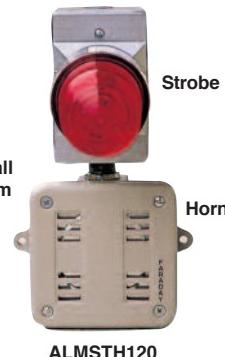
These alarm units are been designed to duplicate local alarms found on the primary equipment, such as the Breather Box™, to signal workers in a remote location of an alarm condition with their system.

Note: Portable Breather Box™ units require DC alarms. Wall mount filter panels require AC alarms.

Models Available:

- Standard audible alarm, 90 dbA
- High intensity audible, 123 dbA
- Audible and visual combination units
- Explosion-proof alarm
- Wall mount alarm

115 VAC Wall Mount Alarm



ALMSTH120

| Model No. | Description |
|-----------|--|
| 50-ALM | Remote alarms for standard 9-12 VDC Breather Box™ Models ONLY Remote audible alarm, includes 50 ft. cable, 9-12 VDC |
| 50-ALMH | Remote high intensity audible alarm, 123 dbA, includes 50 ft. cable, 9-12 VDC |
| 50-ALMST | Remote audible alarm with mounted visual strobe and guard, includes 50 ft. cable, 9-12 VDC |
| 50-ALMSTH | Remote high intensity audible alarm, 123 dbA, with mounted visual strobe and guard, includes 50ft. cable, 9-12 VDC |
| 50-ALMAA | Remote alarms for standard 9-12 VDC Auto-Air Breather Box™ Models ONLY Remote dual audible alarm, includes 50 ft. cable, 9-12 VDC |
| 50-ALMSTA | Remote dual audible alarm with mounted visual strobe, includes 50 ft. cable, 9-12 VDC |
| 50-ALMP | Remote Pneumatic alarm Remote audible alarm, pneumatic horn Custom only - contact Customer Service for details |
| ALMSTH120 | Remote alarms for panel mounted filtration Models ONLY Remote audible/visual strobe with conduit box - 120 VAC Explosion-proof remote audible alarm - 120 VAC Explosion-proof strobe light - 120 VAC |
| EXAL | |
| EXVST | |

Additional cable lengths available
contact Customer Service

Did You KNOW?

The responsibility for quality of breathing air rests with the user.

The air supply compressor should be located in a safe, clean ambient air environment. This "safe" location should be tested periodically to ensure clean ambient air quality on a consistent basis. Total system air quality should be tested at the time the compressor is initially set up. If the compressor is moved, retesting air quality is recommended. Should the location or environment significantly change, the air quality should be retested.

Air Systems provides at NO CHARGE your first lab certified air quality test of your new Air Systems' breathing air filtration device or compressor. Contact Customer Service for details.

AirCheck✓Kit™

Certified laboratory air testing is now available for high pressure bottled air or low pressure compressor air requirements. Take your own samples in 10 minutes and send out for precise laboratory results. A 2LA accredited lab will test to any recognized standards, e.g., CGA, NFPA, or Federal MIL Specs.

Results can be obtained in less than 3 days; same day service is available for an additional charge.

Air Sampling Kits Available for Rental or Purchase

Laboratory Air Testing Service Fast * Easy * Accurate



ACK-97 & AQT-1LS

| Model No. | Description |
|-----------|--|
| ACK-97 | Air Check Kit to collect air sample. Specify pressure adapter required for testing SCBA, SCUBA, or low pressure. Purchase of AQT-1LS required |
| ACK-97R | RENTAL Air Check Test Kit - 2 week rental period. Purchase of AQT-1LS required |
| AQT-1LS | Laboratory analysis fee and sample media kit. One kit required for each air test performed. |

Grade-D Filtration

Air Quality Testing

Compressed Air Cylinder Test Meter For Blended Air

Test Air Quality Prior to Use



AQT-C002

The Model AQT-O2 Air Quality Test Meter has been developed out of a need to test rented cylinder's blended air quality before putting them to use. Obtain an immediate and accurate oxygen (O_2) reading for both high pressure cylinder air and low pressure plant air lines. The tester can be ordered with an additional sensor to read carbon monoxide (CO) simultaneously with oxygen (O_2), order Model AQT-COO2. The tester requires two 9-volt batteries for operation and is supplied with 5 feet of hose.

For cylinder air testing, order the optional high pressure adapter pictured below, Model AQT-347LP



High Pressure Air Cylinder Adapter

When testing high pressure air cylinders, the AQT-347LP adapter must be ordered. It reduces cylinder pressures up to 5000psi down to 100psi. The AQT's sample hose can then be plugged directly into the air cylinder adapter. The low pressure air sample is then attached to the AQT-COO2 test meter.

| Model No. | Description |
|-----------|--|
| AQT-O2 | Air Quality Test Meter, O_2 only, max. pressure 125 psi |
| AQT-COO2 | Air Quality Test Meter, CO and O_2 , max. pressure 125 psi |
| AQT-347LP | High pressure air cylinder adapter, 5000 psi max to 100 psi reducer |
| BBK-10 | Calibration kit - 10 ppm CO and zero air - Canadian Requirement - 17 liter cylinders |
| BBK-20 | Calibration kit - 20 ppm CO and zero air - 17 liter cylinders |
| BG-02 | Oxygen calibration gas, 17 liter, 20.9% in nitrogen |

Note: All meters are supplied with 5 feet of test hose and a 1/4" Hansen or Schrader style low pressure plug.
For cylinder air testing, order high pressure cylinder adapter above, AQT-347LP

Air Quality Test Kit

Air Systems' breathing air quality test kits are designed to test the air produced by compressors (use Model LP-A4) and compressed air in cylinders (use Model HP-A4 and HP-A445). These tests are accomplished through the use of low cost detector tubes that provide a "go/no go" test of the air quality. If a high reading is found, this signals the user that they have a potentially unacceptable quality of breathing air. If this occurs, a laboratory analysis of the air components must be made to determine the exact readings of the air quality and take corrective action.

For precise laboratory analysis, see Air Check Kit information on page 14.



Complete Test Kit
LP/HP-A445K
Rated for 5000 psi Testing

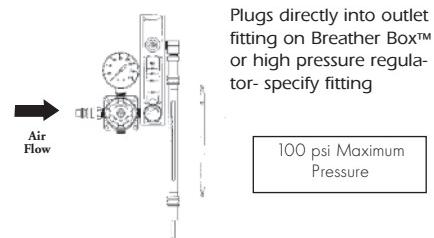
High Pressure Cylinder Air Test Module

HP-A445 & HP-A4

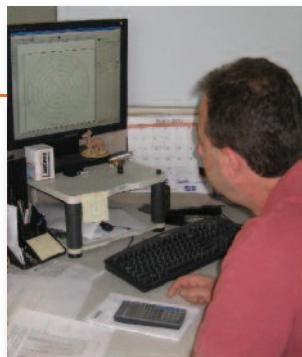


Low Pressure Compressor Air Quality Test Module

LP-A4



| Model No. | Description |
|------------|---|
| | Basic Components for All Tests |
| HP-1A* | Replacement carbon monoxide test tube - 10/Box |
| HP-2A* | Replacement carbon dioxide test tube - 10/Box |
| HP-6A* | Replacement water vapor test tube - 10/Box |
| HP-109AD* | Replacement oil mist test tube - 10/Box * Denotes Tubes Supplied In Kits Below |
| | Basic Component Test Modules |
| HP-A4 | Cylinder air test module - 3000 psi maximum - use with test module LP-A4 |
| HP-A445 | Cylinder air test module - 5000 psi maximum - use with test module LP-A4 |
| LP-47PF | Total particulate test module - maximum 20 psi - add to test modules above - includes one filter |
| LP-A4 | Compressor air quality test module - 100 psi max. |
| | Complete Test Kits |
| LP/HP-A4K | Consists of: LP-A4, HP-A4, LP-47PF, 4 boxes assorted test tubes, polycarbonate padded carry case - 3000 psi maximum |
| LP/HPA445K | Same as above kit, includes HP-A445 test module in place of HP-A4 module - 5000 psi maximum |



Custom Designed Filtration Systems

Air Systems' engineering and design team will manufacture a custom Grade-D breathing air system to meet your most stringent needs.



Plant Filtration Systems are Available up to 3000 cfm



Custom Plant Breathing Air

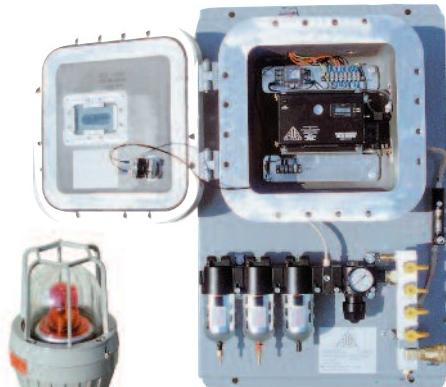


Grade-D Filtration for Clean Room Applications

Explosion-Proof Grade-D System

Model B50-COPMEX, 50cfm, explosion-proof Grade-D Filtration supplied with NEMA 7 enclosure for CO monitor and electronics with viewing window mounted on a steel panel. The 50-EXALPST, explosion-proof visual alarm and strobe, is designed for use with the explosion-proof panel and has a high intensity pneumatic audible alarm with adjustable volume.

Consult factory for additional details.



**Explosion-Proof Grade-D Filtration Panel
B50-COPMEX**



Portable Plant Filtration Cart with Auto-Air™ Feature



**Custom Breather Box™
150 cfm portable
Grade-D Filtration for use
with remote POA boxes**



Breathing Air Compressors

Portable



COMP-3™ Breathing Air Compressor System



The Twin-Air™ Compressor system is designed to provide Grade-D breathing air to 3 workers wearing pressure demand respirators. The TA-3 has twin ASME receiver tanks that act as the mounting frame for the compressor. The use of the receiver tanks provides air that has been cooled to within 10 degrees of the ambient temperature. We've added pneumatic tires for ease of mobility in rough terrain and a bottom skid plate for going up and down stairs. This plate becomes the frame for the addition of a reserve air cylinder on the model TA-3EA.

This compressor is not designed for use with constant flow respirators or Vortex cooling tubes.

Designed for use with Pressure Demand Respirators Only

TA-3 Compressor Specifications

- Rotary vane air compressor rated for continuous duty
- Pressure range to 110 psi output
- 2 HP electric motor, 1750 rpm continuous duty – thermally protected
- 115/230 VAC, 1-phase, 60Hz, 17.2 amps (Requires 20 amp service)
- Low maintenance - 500 hours between oil changes
- 10" pneumatic tires
- 50,000 hour minimum vane life
- Built-in skid plate for stair climbing
- USDA approved food grade oil in compression end
- Automatic pressure unloading - full modulation air control
- Breather Box™ Grade-D filtration package required
- Noise level below 70 dbA at 3 feet
- 8 Gallon Twin-Air™ tank assembly, 8.5 cf air storage @ 110 psi, ASME coded
- 1/2" 5000 series Hansen style coupling on air outlet
- Optional explosion-proof motor (230/3 VAC only), MODEL TA-3EXP, see page 18
- Dimensions: 46" L x 24" W x 22" H
- Weight: 150 lbs



| Model No. | Description |
|-----------|--|
| TA-3 | Twin-Air™ Compressor, 115/230 VAC, 1 phase, 2HP, 20amp |
| COMP-3 | Package system includes: Model TA-3 compressor, H-10-5 (1/2" x 10') connect hose, and BB30-CO3 Breather Box™ filtration package, 3 respirator fittings |
| BBK-20 | Calibration kit for CO monitor - 20 ppm CO, zero air, regulator and case - 17 liter size disposable cylinders |
| BBK-10 | Calibration kit - same as above with 10ppm CO gas for Canadian calibration |
| BB30-FK | Replacement filter kit |

COMP-1™ Breathing Air Compressor System

Designed for use with Two Pressure Demand Respirators Only

The TA-1 compressor has been designed to operate 1 or 2 pressure demand airline respirators. Grade-D filtration must be provided in the form of a 1 or 2 worker Breather Box™. The TA-1 uses a 115/230 VAC 60Hz electrical supply. Model TA-3G uses a gasoline engine for mobile operations. USDA food grade oil is used in the compressor air end.



| Model No. | Description |
|-----------|---|
| TA-1 | Electric compressor, 1-2 worker, 115 VAC |
| TA-3G | Gasoline compressor, 1-2 worker with remote intake snorkel |
| COMP-1 | Note: Grade-D filtration and hoses ordered separately or available in packages below Grade-D compressor package includes: TA-1 compressor, BB15-CO Breather Box™, H-25-3 connect hose |
| COMP-2 | Same as COMP-1 with the addition of Model BB15-CO2, 2-outlet Breather Box™ |

This compressor is not designed for use with constant flow respirators or Vortex cooling tubes.

Compressors for use in IDLH and Hazardous Environments

COMP-3EA™ Breathing Air Compressor System

Designed for use with Pressure Demand Respirators Only

The Auto-Air™ Compressor System Package

This compressor system is designed to provide automatic back-up air for up to 3 workers in the event of compressor failure. An optional 60 or 87cf cylinder can be installed on the compressor frame to provide additional egress air.

The package consists of the Auto-Air™ Breather Box™ model BB30-COAA, the TA-3EA compressor supplied with a CGA-347 high pressure reducing regulator, primary and secondary hoses. NIOSH requires the use of a 5 minute airline escape respirator when working in IDLH environments. Our Auto-Air™ feature does not replace the NIOSH requirement, however, some work environments may require longer than a 5 minute airline hip bottle to safely egress the hazardous area.

This compressor is not designed for use with constant flow respirators or Vortex cooling tubes.



| Model No. | Description |
|-----------|---|
| TA-3EA | Twin-Air™ Compressor System: Includes TA-3 with an adjustable high pressure (5000psi) regulator for attachment to a CGA-346 or CGA-347 cylinder, bottle strap, and cylinder protection molding. |
| COMP-3EA | Package system includes: Model TA-3EA compressor, H-10-5 (1/2" x 10') hose, H-10-3 (3/8" x 10') hose, high pressure regulator, and BB30-COAA Breather Box™ (order reserve air cylinder separately). |
| AC-60 | 60cf aluminum cylinder - 2400psi rated |
| AC-87 | 87cf carbon fiber cylinder - 4500psi rated |
| BBK-20 | Calibration kit for CO monitor - 20ppm CO, zero air, regulator and case - 17 liter size disposable cylinders |
| BBK-10 | Calibration kit - same as above with 10ppm CO gas for Canadian calibration |
| BB30-FK | Replacement filter kit |



| Model No. | Description |
|-----------|--|
| TA-3EXP | Twin-Air™ Compressor, 2 HP explosion-proof electric, 230/3VAC, on-off switch, no plug, user wired per NEC requirements |

Note: Size the reserve air system to achieve the required egress time



Explosion-Proof Auto-Air™ Compressor

Designed for use with Pressure Demand Respirators Only

Specifications:

- 110 psi output air pressure, 3 couplings supplied
- Explosion-proof electric motor - 230 VAC, 3 phase
- Explosion-proof on/off switch
- 25 ft power cord, no plug, user wired per NEC requirements
- 3-worker operation - pressure demand respirators only
- Full automatic back-up air feature, up to 4500 psi capability
- Pneumatic visual indicator and audible alarm for system failure
- Grade-D, 3-stage filtration with 30 cfm flow capacity
- Twin-Air™ tank design for cool breathing air output, ASME coded
- Intrinsically safe carbon monoxide monitor, approved for 9-volt DC operation in Class 1, DIV. 1, Groups C and D Environments
- Holds one SCBA cylinder up to 4500 psi back-up air
- Steel air control panel with high pressure regulator
- Pneumatic 10" tires

This compressor is not designed for use with constant flow respirators or Vortex cooling tubes due to low output pressures.

Grade-D, 3-stage Filtration
Approved Intrinsically Safe Carbon Monoxide Monitor



| Model No. | Description |
|-----------|--|
| TA3-AXAF | Explosion-proof compressor includes: Grade-D filtration, air control panel with CO monitor, 25 ft. power cord, user wired per NEC requirements. Reserve air cylinders sold separately. |
| AC-60 | 60cf aluminum cylinder - 2400 psi rated |
| AC-87 | 87cf carbon fiber cylinder - 4500 psi rated |
| BB15-FK | Replacement Filter Kit |
| BBK-20 | Calibration kit for CO monitor - 20 ppm CO, zero air, regulator and case - 17 liter size disposable cylinders |
| BBK-10 | Calibration kit - same as above with 10 ppm CO gas for Canadian calibration |

Note: Size the reserve air system to achieve the required egress time

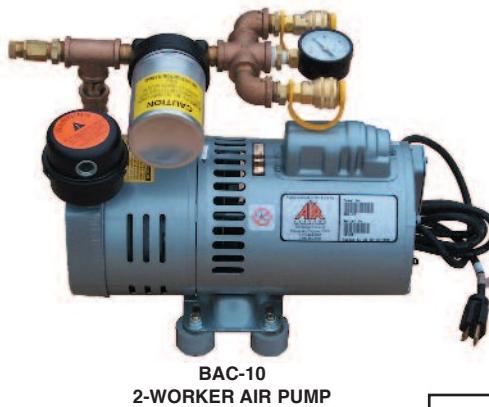
Low Pressure Ambient Air Pumps

For use with Constant Flow Respirators Only

For proper air pump operation:

Always choose a constant flow respirator that is designed and approved to operate with an ambient air pump, UNDER 15 psi. Specify the approved respirator coupling size when ordering a particular model pump that matches the respirator hose selected. Compressors MUST be placed in a clean air environment per OSHA 1910.134.

Ambient air pumps are not designed
for use with pressure demand
respirators or Vortex cooling tubes
due to low output pressure.



Specifications

- Operates 1 hood style respirator or 2 tight fitting constant flow masks. Respirator requirements CAN NOT exceed maximum pressure of 15psi
- Maximum 10psi at 9cfm output, 9.5 cfm output at 4 psi
- Electric motor: 3/4 HP, ODP, 100-115/208-230 VAC, 12.2/6.1 amps, 50/60 Hz, 1 phase, thermally protected, CSA approved
- 0.5-0.7 micron inlet and compressor filters
- 0-30 psi pressure gauge
- Prewired with on/off switch and plug (115 VAC plug only)
- Approximate weight: 55 lbs.

For Respirator Cooling, See Page 21



Specifications

- Operates 2 hood style respirators or 3 tight fitting constant flow masks as long as the combined flow requirements DO NOT exceed 15 cfm at 4 psi
- Maximum pressure 15 psi at 12 cfm output, 15 cfm output at 4 psi
- Electric motor: 1.5 HP, TEFC, 115/208-230 VAC, 15.2/8.2 amps, 60 Hz, 1 phase, thermally protected, CSA approved
- 0.5-0.7 micron inlet and compressor filters
- 0-30 psi pressure gauge
- Prewired with on/off switch and plug (115 VAC plug only)
- Approximate weight: 96 lbs.
- Optional explosion-proof electric motor available – Model BAC-17EXP, 230/460 VAC, 3 phase motor



Specifications

- Operates 2 hood style respirators or 4 tight fitting constant flow masks
- Maximum pressure 15 psi at 16 cfm output, 20 cfm output at 4 psi
- Electric motor: 2 HP, TEFC, 115/208-230 VAC, 20.0/10.0 amps, 60 Hz, 1 phase, thermally protected, CSA approved
- 0.5-0.7 micron inlet and compressor filters
- 0-30 psi pressure gauge
- Prewired with on/off switch and plug (115 VAC plug only)
- Approximate weight: 103 lbs.

Note: BAC-17, BAC-20, and BAC-20P models are now available with an optional HEPA intake filter

| Model No. | Description |
|------------|--|
| BAC-10 | Basic Air Pumps 2-worker ambient air pump |
| BAC-17 | 3-worker ambient air pump |
| BAC-20 | 4-worker ambient air pump |
| BAC-20P | 4-worker pneumatic ambient air pump |
| BAC-393 | Replacement Filters Note: All ambient air pumps require two (2) replacement filters - the pump/compressor filter and the air intake filter. Replacement pump compressor filter for all models (Box of 10) |
| BAC-10F | Replacement air intake filter - Model BAC-10 (Box of 27) |
| BAC-20F | Replacement air intake filter - Models BAC-17, BAC-20, BAC-20P (Box of 14) |
| BAC-20HF-1 | Replacement HEPA (99%) air intake filter for Models BAC-17, BAC-20 and BAC-20P |

| Model No. | Description |
|-----------|---|
| BAC-17EXP | Air Pump - Explosion Proof 3-worker explosion-proof ambient air pump, 230/460 VAC, 3-Phase, explosion-proof on/off switch sold separately |



Low Pressure Ambient Air Pumps For use with Constant Flow Respirators Only



BAC-203TCO

Approximate weight: 180 lbs.

Optional
CO Monitor with
Lights and Alarm

Portable Cool-Air™ Pump

All air pumps deliver output air temperatures ranging between 140-180°F. The low cost solution to cool the pump's air is to order Air Systems' air pump mounted on the ASME Twin-Air™ tank/cart frame assembly. Output air temperatures will be approximately 20°F above the ambient temperature. The system has large tires for ease of mobility. Each tank is supplied with a manual moisture drain valve. A **COOL-BOX™** can be ordered for additional cooling, see page 21 for details.

These compressors are not designed for use with pressure demand respirators. Vortex cooling tubes can not be used on air pumps due to low output pressure.

| Model No. | Description |
|------------|---|
| | Air Pumps with CO Monitoring |
| BAC-103TCO | BAC-10 compressor pump on TA-3T, Twin-Air™ tank with CO monitor |
| BAC-173TCO | BAC-17 compressor pump on TA-3T, Twin-Air™ tank with CO monitor |
| BAC-203TCO | BAC-20 compressor pump on TA-3T, Twin-Air™ tank with CO monitor |
| | Tank Mounted Pumps |
| BAC-10-3T | BAC-10 compressor pump on TA-3T, Twin-Air™ tank |
| BAC-17-3T | BAC-17 compressor pump on TA-3T, Twin-Air™ tank |
| BAC-20-3T | BAC-20 compressor pump on TA-3T, Twin-Air™ tank |
| BAC-20P-3T | BAC-20P compressor pump on TA-3T, Twin-Air™ tank |

Did You Know?

OSHA REQUIRES CO MONITORING

"For compressors not oil lubricated, the employer shall ensure that CO (carbon monoxide) levels do not exceed 10ppm." (OSHA 1910.134(i)(6)) Air Systems' CO-91 series monitor can be fitted to ANY ambient air pump.



BAC-30RT30
6-Worker Air Pump
Optional CO Monitor available

Portable CO Monitor for Air Pumps



See Page 10 for Monitor Details
on CO91-14LAC

High Volume Air Pumps

Air Systems offers large, high volume, oilless air pumps that deliver a maximum 15 psi. These pumps operate only constant flow respirators. Due to high output air temperatures, a small receiver tank is recommended to provide cooler air to the workers. A six outlet manifold or straight pipe outlet is supplied as standard. Custom variations available. Call Customer Service for details and specifications.

These compressors are not designed for use with pressure demand respirators or Vortex cooling tubes due to low output pressure.



Heat Stress Prevention

As temperatures rise, so do heat related injuries including heat exhaustion & heat stress.



30 feet of coated aluminum tubing cools air

- Low cost cool breathing air
- 50°F output air temperature with input temperatures up to 180°F
- Easy to use and maintain - manual drain provided
- Aluminum jacketed tubing USDA approved
- 20 lbs. of ice provides up to 4 hours of cooling
- Provides NIOSH point-of-attachment components and cooling in one system
- Operates with any airline mask or hood style respirator, including level "A" chemical suits & abrasive blasting hoods. Choose the model at right to match your air supply pressure.

Applications

- Sand Blasting
- Confined Space
- Utility Companies
- Welding
- Maintenance
- Construction
- Production



Just add ice for immediate respirator air cooling

| Model No. | Description |
|------------|---|
| BACB-196 | COOL-BOX™ complete with 1/4" Hansen or Schrader style fittings - rated to 125 psi inlet pressure |
| BACB-196LP | COOL-BOX™ designed specifically for use with Ambient Air Pumps (0-20 psi max.), low pressure pump conversion kit BACB-196K included |

Note: Cooler color may vary

KOOL-VEST™ Personal Airline Cooling

- Durable double coated PVC on nylon scrim material with velcro front closures and sewn-in adjustable belt
- Vented interior of vest to direct air around the body
- Rear velcro strip controls air volume to the neck ring
- Air cooled using vortex cooling tube or COOL-BOX™ and distributed to back, chest, neck & face
- Meets thermal and flame resistance tests 191 and 5903

| Model No. | Description |
|-----------|---|
| KV-99NR | KOOL-VEST™ airline model - add either a vortex tube or straight airline adapter |
| KV-99NONR | KOOL-VEST™ airline model - No Neck Ring |
| 99-4X | Vortex tube assembly for KOOL-VEST™ |
| KV-99AA25 | Airline Adapter for KOOL-VEST™ with 1/4" Hansen style plug |
| KV-99AA50 | Airline Adapter for KOOL-VEST™ with 1/2" Hansen style plug |



Vest with COOL-BOX™ and KV-99AA25 airline adaptor



Vest with Optional Vortex Cooling Tube
99-4X



UNDERSTANDING QUICK CONNECT FITTINGS

Air Systems offers standard 1/4" Hansen style Industrial Interchange Brass (pull to disconnect style) or 1/4" Schrader Twist Lock (twist to disconnect style) fittings on most of our products. In **ALL** cases, the fitting on the end of the respirator hose and what it is being connected to **MUST** be compatible or they will not connect. For example, Hansen 1/4" Industrial Interchange plug fits to a 1/4" Industrial Interchange Socket.

Fitting - can refer to either a **Plug** or a **Socket**

Plug - Is commonly referred to as the male end



Hansen Style Plug
Male Threads



Hansen Style Plug
Female Threads



Schrader Style Plug
Male Threads



Schrader Style Plug
Female Threads

Socket - Is commonly referred to as the female end



Hansen Style Socket
Male Threads



Hansen Style Socket
Female Threads



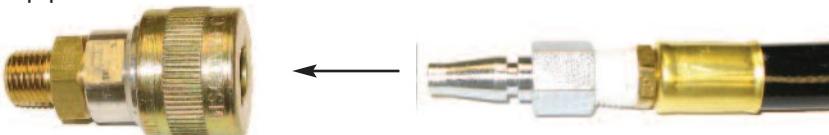
Schrader Style Socket
Male Threads



Schrader Style Socket
Female Threads

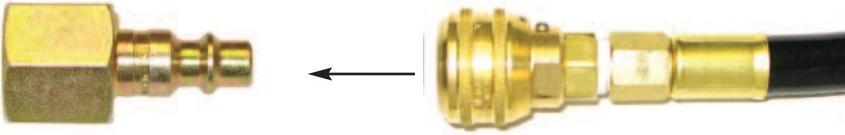
MPT (Male Pipe Thread) - Threads that are on the outer body part of a plug or socket. Thread sizes are typically 1/8", 1/4", 3/8", 1/2" or 3/4" pipe thread. A fitting that has male pipe threads (MPT) can only mate to something with female pipe threads (FPT) that are of the same pipe thread size.

The male end will only
thread to female pipe
threads of the same size

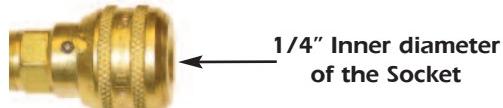


FPT (Female Pipe Thread) - threads that are on the inner body part of a plug or socket. Thread sizes are typically 1/8", 1/4", 3/8", 1/2" or 3/4" pipe thread. A fitting that has female pipe threads (FPT) can only mate to something with male pipe threads (MPT) that are of the same pipe thread size.

The female end
will only thread to
male pipe threads
of the same size



"**Nominal**" refers to the inner diameter size that the compressed air passes through. A plug and socket must both have the same "**nominal size**" in order to mate together properly.



1/4" Inner diameter
of the Plug



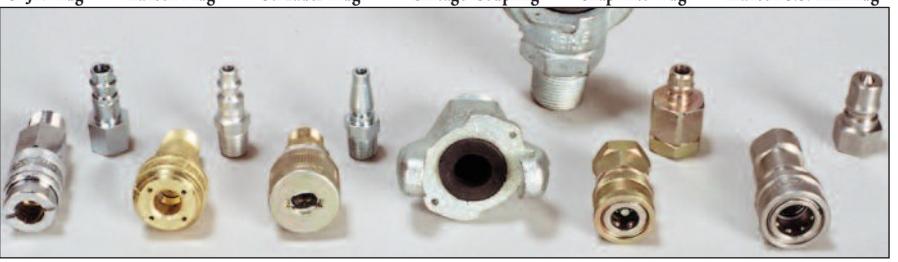
When "coupling" a plug and socket together, only the "nominal" diameter size must be the same; thread sizes may differ. When trying to attach a plug or socket to another device, the thread size must match and if the fitting has male threads, the part being connected to must have female threads and visa versa.

There are a large number of companies manufacturing quick connect couplings. Hansen, Parker and Foster are a few of the more popular names. Almost all manufacturers make an industrial interchange style. A 1/4" industrial interchange from Hansen will be compatible with a 1/4" industrial interchange with either Parker or Foster. If a customer states they are in need of a Foster fitting, ask if it is a Foster Schrader or Foster Hansen style. We can cross reference additional fitting types, please provide part numbers imprinted on the socket or plug.

QUICK-CONNECT COUPLINGS*

- Hansen • Schrader • Parker • Snap-Tite • National • Perfecting • CEJN • Chicago
- *Specify size and type when ordering breathing air systems and hoses

CEJN Plug Hansen Plug Schrader Plug Chicago Coupling Snap-Tite Plug Hansen S.S. HK Plug



Breathing Air Compressors

Stationary

Designing a Breathing Air System:

Air Systems' technical staff will assist you in selecting the proper compressor package as the first step in designing a breathing air system to meet your needs. The compressor styles and specifications listed below are for general information. Once a specific compressor package is selected, detailed information such as technical specifications and Auto-Cad® drawings will be provided for customer review and approval.

All systems are designed and engineered to be ready for immediate use.

Plant plumbing and electrical service should be completed prior to delivery.

Did You KNOW?

It is recommended that after the initial set-up of a plant breathing air compressor system and before workers are allowed to use the breathing air system, a certified laboratory analysis of the air quality should be performed to assure that the system is functioning properly and that the compressor is located in a clean fresh air environment.

Air Systems provides at NO CHARGE your first lab certified air quality test. Contact Customer Service for details.

Plant Breathing Air Compressor Systems Electric, Gasoline & Diesel Rotary Screw

Plant breathing air systems are designed to provide Grade-D breathing air for industrial applications. Remote air manifolds are used at various work stations. The system pictured below includes our 135 cfm compressor, a 120 gallon ASME receiver tank, Air Systems' Grade-D filtration panel with our CO-91 series carbon monoxide monitor and a refrigerated air dryer. The entire filtration system is mounted on a steel forklift frame assembly. This package configuration can be designed for any required flow (cfm) capacities and output pressures.

For a quote, please fill out the Plant Breathing Air Questionnaire in the back of the catalog or on-line at www.airsystems.com

120 Gallon Receiver



BAC-HP135
Skid-mounted Grade-D
Breathing Air Package

Air Systems provides at NO CHARGE your first lab certified air quality test.

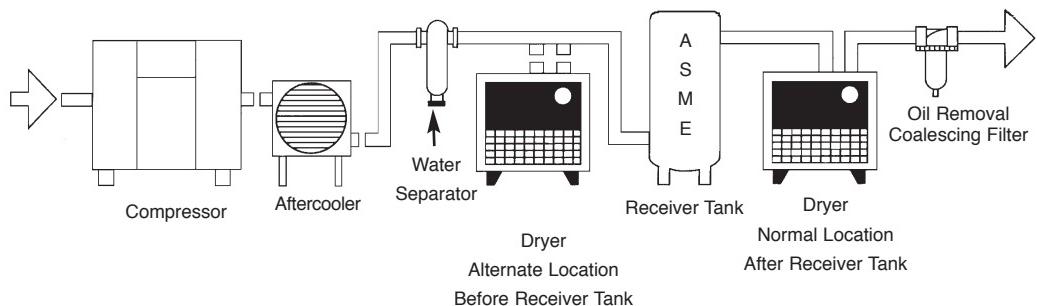


Electric Drive Compressor with Digital Control Panel and Integrated Dryer

Typical Breathing Air Packages

| Model Motor | acfm Output | Electric |
|-------------|-------------|------------|
| Number | @ 110 psi | Horsepower |
| BAC-HP20 | 21 | 5 |
| BAC-HP40 | 42 | 10 |
| BAC-HP70 | 68 | 15 |
| BAC-HP90 | 92 | 20 |
| BAC-HP115 | 115 | 25 |
| BAC-HP135 | 135 | 30 |
| BAC-HP170 | 170 | 40 |
| BAC-HP195 | 195 | 40 |
| BAC-HP240 | 240 | 50 |
| BAC-HP280 | 282 | 60 |
| BAC-HP360 | 360 | 75 |

Typical Compressor System Layout



Dryer
Alternate Location
Before Receiver Tank

Normal Location
After Receiver Tank

Oil Removal Coalescing Filter



Plant Breathing Air Compressor Systems Choose the Industry's Finest Compressors

Select from vertical or horizontal compressor systems

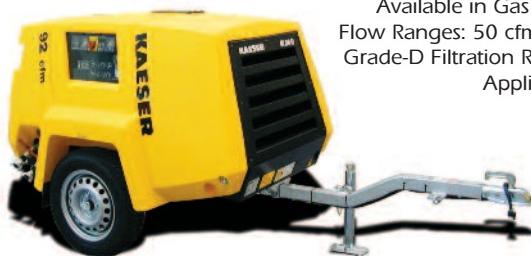
Engineered Options

- Standard and HEPA Remote Intake Air Filters Available
- Refrigerated Air Dryers
- ASME Receiver Tanks
- Air or Water Cooled Aftercoolers
- Automatic Moisture Separators
- Skid Mounting
- Trailer Mounting
- Heat and Air Conditioning Systems
- Sequencers
- On-site Field Training Available



Packages Ready
for Plant Installation

Portable Rotary Screw Compressors



Available in Gas or Diesel Engines.
Flow Ranges: 50 cfm – 950 cfm @ 100 psi
Grade-D Filtration Required for Breathing Applications

Dual Air Tower Compressors with Auto Sequencing



High Fill Compressors

Air Systems provides a full line of high pressure fill compressors with high CO shutdown, air storage, air distribution systems and containment fill stations.

We can provide output air pressures to 6000 psi and 26 cfm capacity.



We specialize in designing custom systems to meet Military, Fire/Rescue and Industrial fill applications.

Call Customer Service to discuss your particular application or fill out the High Pressure Compressor Questionnaire located in the back of the catalog or at www.airsystems.com to design a custom system to meet your needs.



Horizontal Fill Compressor

A Complete Fill System Includes:

- High Pressure Fill Compressor with CO Monitor
- Air Storage Cylinders
- Full Containment Fill Station

Electric, Gasoline or Diesel Models Available



Vertical Fill Compressor

Our compressors meet or exceed the Grade-E air quality specifications found in NFPA 1989 and OSHA 1910.134 when used in accordance with manufacturer's recommendations.

Air Systems provides at NO CHARGE your first lab certified air quality test with the purchase of a new compressor with CO monitor. Contact Customer Service for details.

**Did You
Know?**

Portable Fill Compressors

CFM outputs available from 3.5 to 10.8 cfm, Electric, Gas or Diesel



SCUBA fill whips available



Laboratory Air Testing Service

Certified laboratory air testing is now available for high pressure bottled air or low pressure compressor air requirements. Take your own samples in 10 minutes and send out for precise laboratory results. A 2LA accredited lab will test to any recognized standards, e.g., CGA, NFPA, or Federal MIL Specs. Results can be obtained in less than 3 days or expedited service is available at an extra charge.

Air Sampling Kits Available for Rental or Purchase.
Contact Customer Service For Details

Breathing Air Compressors

Fragmentation / Storage Racks



3-Cylinder Fragmentation Fill Station with Cascade Control Panel and Pneumatic Opening Door



Fill stations are designed to meet NFPA cylinder containment requirements. They are the ideal choice for flexibility and trouble-free performance with supply pressures to 6000 psi and cylinder capacities from 2 to 6 positions.

All fill stations have been 3rd party tested to NFPA 1901 requirements and are individually tested and certified for performance prior to shipment.

Custom multi-bank cascade control panels are available upon request.

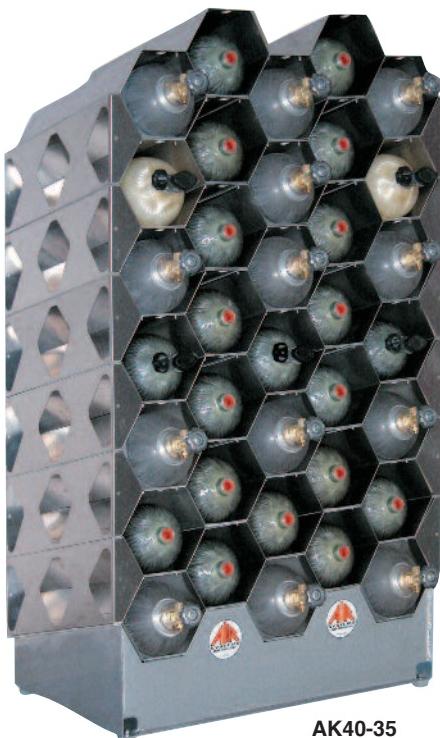
Standard Features

All Steel Construction
Grade-8 Steel Structural Hardware
Vertical Blast Tubes with Liners
Designed to Fit All Size SCBA Cylinders
Third Party Tested to Meet NFPA 1901

Optional Features

Single or Multiple Fill Pressures
Isolation Valves for Each Fill Position
Color Coded Fill Lines and Labels for Each Fill Pressure and Position
Cascade Bank Control Panels

Contact Customer Service to Discuss Your Fill Station Needs



AK40-35
Series 40 Rack

Series 24 Rack



AK24-11TS
Shown

Series 24 is designed to fit in fire/rescue trailers and trucks requiring a narrower profile.

Thread Savers®

Add TS to the model number when ordering to have Thread Savers® installed.

AIR-KADDY™ Modular Aluminum SCBA Cylinder Storage Racks

The AIR-KADDY's™ unique modular aluminum design allows for expansion as needed to accommodate your SCBA storage requirements...today and in the future! Available in Free Standing, Series 40, and Vehicle Style, Series 24. All racks are lined with nylon pads to prevent cylinder scratches.



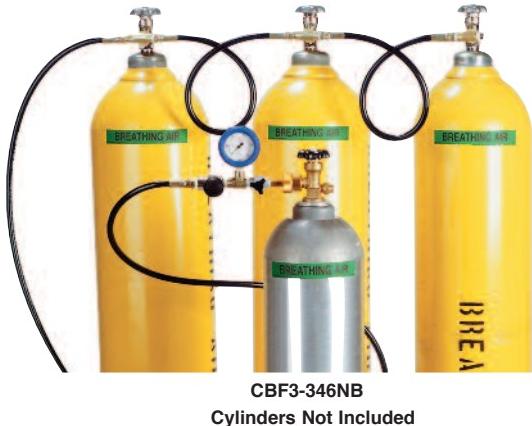
Contact Customer Service for custom sizes



Thread Saver®

| Model No. | Description |
|-----------|--|
| AK24-8 | Series 24: 25.25" W X 22.25" D AIR-KADDY™ 8 cylinder rack - 32"H |
| AK24-11 | AIR-KADDY™ 11 cylinder rack - 48"H |
| AK24-18 | AIR-KADDY™ 18 cylinder rack - 60"H |
| AK24-24 | AIR-KADDY™ 24 cylinder rack - 76"H |
| AK40-15 | Series 40: 37.5" W X 22.5" D AIR-KADDY™ 15 cylinder rack - 36"H |
| AK40-25 | AIR-KADDY™ 25 cylinder rack - 60"H |
| AK40-35 | AIR-KADDY™ 35 cylinder rack - 68"H |
| AK40-40 | AIR-KADDY™ 40 cylinder rack - 76"H |
| VAL-TS | Thread Saver® - cylinder thread protector |

Cascade Cylinder Fill Assemblies



Air Systems' cascade fill assemblies are used for refilling either 2216 or 4500 psi SCBA cylinders. Fill assemblies include a 5 ft. high pressure fill whip with gauge, universal hand-tight nut, on/off and bleed valve. Cylinder connecting whips are supplied with a CGA stem, nut, and tee assembly. Additional cylinder connecting whips can be added to any of the below assemblies for multiple or extended SCBA fill capacity.

| Model No. | Description |
|------------|--|
| CBF4-346NB | 4 cylinder fill assembly, 2400 psi, CGA-346 fill whip and connecting whips, no cylinders |
| CBF4-347NB | 4 cylinder fill assembly, 5000 psi, CGA-347 fill whip and connecting whips, no cylinders |
| CBF4-702NB | 4 cylinder fill assembly, 6000 psi, CGA-347 fill whip and connecting whips, no cylinders |

**Additional Fill Assemblies Available.
Contact Our Customer Service Department.**

Cylinder Fill Whips

**Low Pressure
HP-FW5-346**
CGA-346 Fill Whip
3000psi Maximum

**High Pressure
HP-FW5-347**
CGA-347 Fill Whip
5000psi Maximum

**Ultra High Pressure
HP-FW5-702**
CGA-702 Fill Whip
6000psi Maximum



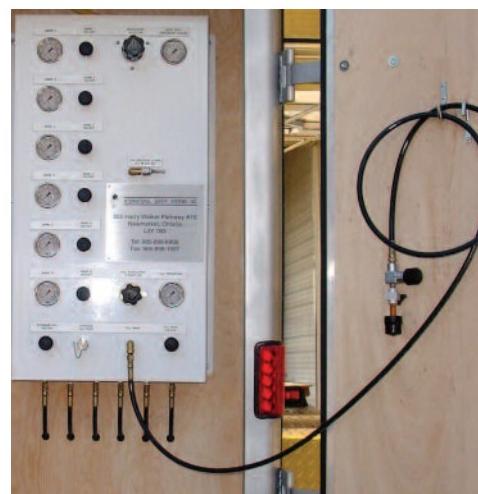
Air Cylinder Connecting Whips

| Model No. | Description |
|-----------|---|
| | Without Check Valves |
| CW-30 | 30" Connecting whip with tee, CGA-346 stem and nut, no cylinders |
| CW-30HP | 30" Connecting whip with tee, CGA-347 stem and nut, no cylinders |
| CW-30-702 | 30" Connecting whip with tee, CGA-702 stem and nut, no cylinders |
| | With Check Valves |
| CWCV-30 | 30" Connecting whip with check valve, tee, CGA-346 stem and nut, no cylinders |
| CWCV-30HP | 30" Connecting whip with check valve, tee, CGA-347 stem and nut, no cylinders |
| CWCV-702 | 30" Connecting whip with check valve, tee, CGA-702 stem and nut, no cylinders |

We Specialize in Custom Fill Panels



**Contact Customer
Service for assistance in
designing a fill panel
for your specific needs.**



High Pressure Breathing Air

Cascade Breathing

Cascade Breathing Air Assemblies

Air Systems' cascade breathing air assemblies offer a complete system for use with airline respirators. Additional cylinder connecting whips can be added to extend breathing air capacity with additional cylinders.

| Model No. | Description |
|------------|---|
| CBA3-346NB | 3 cylinder breathing air assembly, 2400 psi, includes regulator, 4-outlet manifold assembly, low pressure alarm whistle, relief valve, connecting whips with check valves, no cylinders |
| CBA3-347NB | 3 cylinder breathing air assembly, 4500 psi, includes regulator, 4-outlet manifold assembly, low pressure alarm whistle, relief valve, connecting whips with check valves, no cylinders |
| CBA4-702NB | 4 cylinder breathing air assembly, 6000 psi, includes regulator, 4-outlet manifold assembly, low pressure alarm whistle, relief valve, connecting whips with check valves, no cylinders |

**Additional Breathing Air Assemblies Available.
Contact Our Customer Service Department.**



CBA3-346NB
Cylinders Not Included

Breathing Air Regulator / Manifolds



RG-3000



HP-CW1-346

Manifold assemblies available from 1 to 8 outlets
Cylinders Not Included

| Model No. | Description |
|------------|---|
| HP-CW1-346 | 4-outlet manifold assembly with safety relief valve, 3000 psi regulator, CGA-346 connection, low pressure alarm whistle, 4 fittings, no cylinders |
| HP-CW1-347 | Same as above with CGA-347 connection, 5000 psi regulator, low pressure alarm whistle, 4 fittings, no cylinders |
| HP-CW1-702 | Same as above with CGA-702 connection, 6000 psi regulator, low pressure alarm whistle, 4 fittings, no cylinders |
| RG-3000 | CGA-346, 3000 psi, adjustable regulator, dual gauge, relief valve and 1/4" QD fitting, no cylinders |
| RG-5000 | CGA-347, 5000 psi, adjustable regulator, dual gauge, relief valve and 1/4" QD fitting, no cylinders |

Low Pressure Bell Alarm Available - Contact Customer Service.
Please specify fittings when ordering.

Fill Regulator

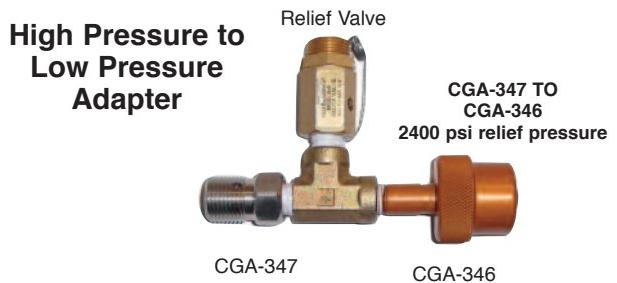


RG-6000FIL

| Model No. | Description |
|------------|---|
| RG-6000FIL | Fill regulator, 6000 psi inlet, 0-5000 psi outlet with gauges, CGA-347 or CGA-702 inlet |

Safety Fill Adapter

High Pressure to Low Pressure Adapter



| Model No. | Description |
|-----------|--|
| HT-346RV | Safety fill adaptor CGA-347 to CGA-346 |

High Pressure Breathing Air

Accessories



AC-444

Air Storage Cylinders

AC-60



AC-87



Test Air Quality Prior to Use

Compressed Air Cylinder Test Meter for Blended Air

The AQT-O2 Air Quality Test Meter was developed to test rented cylinder's blended air quality before putting into service.

Obtain an immediate and accurate oxygen (O_2) reading for both high pressure cylinder air and low pressure plant air lines.

The tester can be ordered with an additional sensor to read carbon monoxide (CO) simultaneously with oxygen (O_2) - model AOT-COO2.



AQT-C002

The tester requires two 9-volt batteries for operation and supplied with 5 feet of hose.

**For cylinder air testing, order
the high pressure adapter**

Part No. AQT-347LP.

| Model No. | Description |
|-----------|--|
| AC-60 | 60 cf CGA-346, 2216 psi, aluminum |
| AC-87 | 87 cf CGA-347, 4500 psi, fully wrapped carbon fiber |
| AC-300 | 300 cf CGA-346, 2400 psi, steel |
| AC-444 | 444 cf CGA-347, 4500 psi, steel |
| AC-472 | 472 cf CGA-347, 5000 psi, steel |
| AC-509 | 509 cf CGA-702, 6000 psi, steel |
| ASME-420 | 420 cf ASME, 5000 psi, steel, requires special fittings and gauges |
| ASME-480 | 480 cf ASME, 6000 psi, steel, requires special fittings and gauges |

| Model No. | Description |
|-----------|---|
| AQT-O2 | Air quality test meter, Oxygen test only 125 psi maximum inlet pressure |
| AQT-COO2 | Air quality test meter, dual Oxygen and Carbon Monoxide testing, 125 psi maximum inlet pressure |
| AQT-347LP | High pressure (5000 psi) to low pressure (100 psi) adapter, CGA-347 stem and nut |

High Pressure CGA Fittings

Hand Tight Fittings



SS347HT

CGA-347 Universal hand tight fits CGA-346 or 347 male thread, maximum pressure 5500 psi



SS347SNHT

CGA-347 High pressure hand tight fits CGA-347 male thread only, maximum pressure 5500 psi

Quick-Fill Coupling



FD-17 Aeroquip®
QDAPD17F
Plug

QDAFD17F
Coupler

Quick-Fill Coupling - Plug
Quick-Fill Coupling - Coupler

Contact Customer Service for ordering information

Wrench Tight Fittings



CGA-346 Series

Maximum pressure, 3000 psi

- HPBR025 CGA-346 Brass Nut
- HPBR026 CGA-346 Brass Stem
- HPBR027 CGA-346 Brass Stem with Check Valve



CGA-347 Series

Maximum pressure, 5500 psi

- HPBR049 CGA-347 Brass Nut
- HPBR050 CGA-347 Brass Stem
- VC4SMMSS CGA-347 Brass Stem with Check Valve



CGA-702

Maximum pressure, 7500 psi

- SS702N CGA-702 Brass Nut
- SS702S CGA-702 Brass Stem
- VC4SMMSS CGA-702 Brass Stem with Check Valve

High Pressure Breathing Air Storage Racks



Steel Lift-Pak™
LP-3LNB
Cylinders Not Included

LIFT-PAK™ Air Cylinder Transport PAKS

LIFT-PAK™ is designed for ease of lifting and securing multiple air cylinders. LIFT-PAK™ can be supplied complete with a respirator regulator, manifold, safety relief valve, low pressure alarm whistle, hardware, and cylinders.

The LIFT-PAK™ frame has a center lift hook and is manufactured with heavy gauge steel or aluminum.

All LIFT-PAK™ units are made to order on a custom basis.

Certified Load Testing Available

| Model No. | Description |
|-----------|--|
| LP-3LNB | 3-cylinder LIFT-PAK™ includes stand and 3 cylinder hook-up, 2400 psi regulator and 4 outlet manifold, no cylinders |
| LP-3HNB | 3-cylinder LIFT-PAK™ includes stand and 3 cylinder hook-up, 4500 psi regulator and 4 outlet manifold, no cylinders |
| LP-3 | 3-cylinder LIFT-PAK™ frame only, no cylinders or hardware |
| BR-6AL | 6-cylinder LIFT-PAK™ aluminum rack with fork guides and lift hook - no cylinders or hardware |
| BR-4AL | 4-cylinder LIFT-PAK™ aluminum rack with fork guides and lift hook - no cylinders or hardware |



Aluminum Lift-Pak™
"The Shark Cage"
BR-6AL

Cylinders Not Included

Custom Large Air Cylinder Storage Racks

Custom heavy-duty steel floor storage racks can be ordered in any combination to meet cylinder storage requirements. Racks can be floor or wall mounted. Two heavy gauge chains with snap hooks are supplied for each row of cylinders.

Order any size rack in either vertical or horizontal style. Systems can be ordered with cylinders and all hardware supplied at pressures up to 6000 psi. Air control panels can be customized for the most demanding applications. Racks can be designed for slide-in vehicle mounting.

| Model No. | Description |
|-----------|--|
| BR-1 | 1-cylinder rack wide, no cylinders |
| BR-2 | 2-cylinder rack wide, no cylinders |
| BR-3 | 3-cylinder rack wide, no cylinders |
| BR-22 | 2 deep x 2 wide, 4-cylinder rack, no cylinders |
| BR-23 | 2 deep x 3 wide, 6-cylinder rack, no cylinders |



Cylinders Not Included



Cylinders Not Included

Economical SCBA / SCUBA Cylinder Storage Rack

- Steel wire basket
- Floor mountable
- Dimensions:
34" L x 8.75" W x 11" H

| Model No. | Description |
|-----------|-----------------------|
| TR-4 | 4 cylinder stage rack |

Air Cylinder Carts

Small Cylinder Cart

MULTI-PAK™ Air Cylinder Carts

The patented MULTI-PAK™ series of SCBA Cylinder carts has been designed with the user in mind. Choose from many basic designs to fit any job application. All of the small MULTI-PAK™ carts feature fold-down handles, recessed air control panels, rounded cart corners, quick release hose racks, and many other unique features. Choose the pressure range and number of fittings required. All carts have input and output pressure gauges.

Ideal for working in hazardous locations and emergency response.



Specifications

- Fold down handle
- Intrinsically safe low pressure alarm whistle (Bell alarm available)
- High flow adjustable regulator
- Input and output pressure gauges
- Solid aluminum block manifold
- Universal handtight CGA fittings with bleeder valves
- Wrenchtight fittings on Model MP-2L
- Nylon cylinder straps with Velcro®
- Quick release hose rack
- In-line check valves
- 8" Semi-pneumatic tires
- Steel frame with black powder coat paint
- 21" L x 16" W x 41" H (Handle up) 34.5" (Handle down)
- Weight: 49 lbs.



MP-4H
Cylinders Not Included



U.S. Patent
#D443,744

MULTI-PAK™ Rescue Cart



- High pressure auxiliary CGA-347 inlet for continuous operation from an external air supply, e.g. truck air
- Secondary low pressure regulator to operate pneumatic tools and lift bags at low pressure
- Cylinder selector valve for independent cylinder operation

Cylinders Not Included

Cart Models Available for 2216 to 4500 PSI



Transport and store Multi-Pak™ carts with a 400 denier black nylon cover with velcro closures at the top and base.

| Model No. | Description |
|-----------|--|
| MP-2L | MULTI-PAK™ 2-cylinder air cart, 2400 psi, supplied with 2-outlet manifold, CGA-346 wrenchtight nuts |
| MP-2H | MULTI-PAK™ 2-cylinder air cart, 4500 psi, supplied with 2-outlet manifold, CGA-347 handtight nuts |
| MP-4H | MULTI-PAK™ 2-cylinder air cart, 4500 psi, supplied with 4-outlet manifold, high flow regulator, CGA-347 handtight nuts |
| MP-4R | MULTI-PAK™ Rescue, 2-cylinder air cart, 4500 psi, supplied with 4-outlet manifold, high flow regulator, CGA-347 handtight nuts |
| MP-TR1 | Tech-Rescue™ Cart - See pg 37 for details |
| AC-87 | 87cf carbon fiber cylinder, 4500 psi |
| AC-60 | 60cf aluminum cylinder, 2216 psi |
| MP-C | Black nylon cart cover for small MP-series carts |

MULTI-PAK™ Large Cylinder Air Carts

**Large Cylinder Air Carts Available in
Cylinder Pressures from 2400 TO 5000 PSI**

The MULTI-PAK™ series of large air cylinder carts are designed for long duration industrial applications. The entire line of carts are built for easier mobility and function. The large cylinder carts incorporate features such as protected recessed controls, an equipment storage box, narrow profile, 16" pneumatic tires and quick-release hose hangers. Pick and choose the features that best suit your job application and work environment.



Front view with hose storage rack - holds 200 feet of 3/8" hose



MP-2300HNB

Cylinders Not Included

Model MP-2300ENB Pneumatic Alarm Whistle

Specifications

- 5000 psi hardware
- Pneumatic low pressure alarm whistle, available with bell alarm
- Solid aluminum block manifold
- In-line check valves
- High flow adjustable regulator
- Input and output pressure gauges
- Storage box with latch
- Universal handtight nuts – fits 2400 to 5000 psi cylinders
- Quick release hose rack - holds 200ft of 3/8" hose
- 16" pneumatic tires
- 62" H x 25" W x 30" D w/cylinders
- Weight: 112 lbs. without cylinders



**Ideal for working in
hazardous locations or
emergency response**



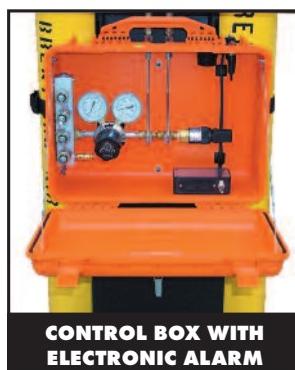
MP-2300ENB
Cylinders Not Included

| Model No. | Description |
|--|---|
| MP-2300ENB | Pneumatic Alarm 2-cylinder cart complete with pneumatic alarm whistle, no cylinders supplied, 5000 psi rated For Hazardous Locations |
| MP-2300HNB | Electronic Alarm 2-cylinder cart complete with electronic alarm, no cylinders supplied 5000 psi rated - For Non-Hazardous Locations |
| 50-ALM 50-ALMH 50-ALMST 50-ALMSTH | Remote alarms for standard 9-12 VDC Breather Box™ Models ONLY Remote audible alarm, includes 50 ft. cable, 9-12 VDC Remote high intensity audible alarm, 123 dBa, includes 50 ft. cable, 9-12 VDC Remote audible alarm with mounted visual strobe and guard, includes 50 ft. cable, 9-12 VDC Remote high intensity audible alarm, 123 dBa, with mounted visual strobe and guard, includes 50 ft. cable, 9-12 VDC |
| AC-300 AC-444 AC-472 | Optional Cylinders 300 cf steel cylinder - 2400 psi 444 cf steel cylinder - 4500 psi 472 cf steel cylinder - 5000 psi |
| MP-2300C | Cart Cover Black nylon cart cover for 2300 series carts |



Rear Storage Box

Custom applications are always welcome!



CONTROL BOX WITH
ELECTRONIC ALARM
NOT approved for
hazardous locations

MP-2300HNB

Cylinders Not Included

Model MP-2300HNB Electric Alarm Version Specifications

- 5000 psi hardware
- Electronic, high intensity, low pressure alarm
- Solid aluminum block manifold
- In-line check valves
- High flow adjustable regulator
- Input and output pressure gauges
- Alarm jack for remote low pressure alarms
- Quick release hose rack - holds 200 ft of 3/8" hose
- 16" pneumatic tires
- 62" H x 25" W x 30" D w/cylinders
- Weight: 112 lbs. without cylinders

Ergo-Air® Cart System

Helps Reduce Back Injuries

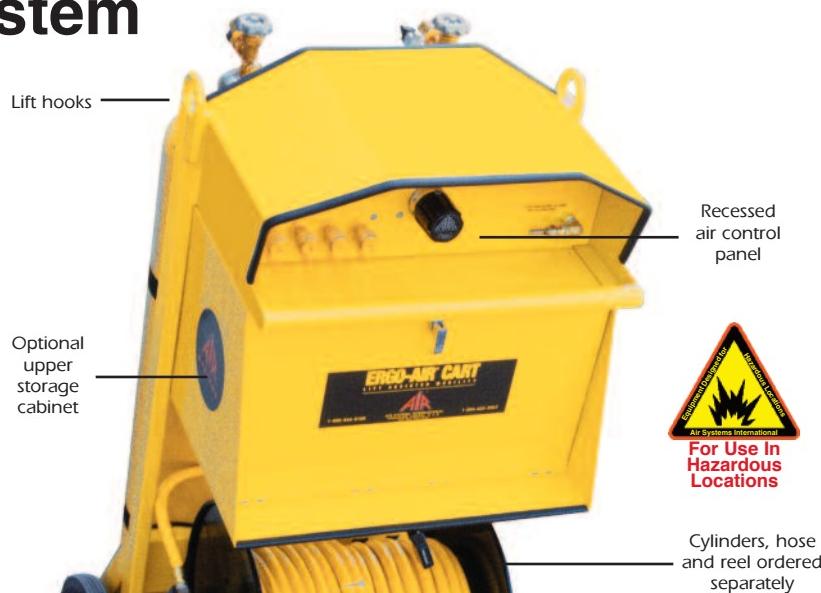
Ergonomically Designed Mobile Breathing Air Cart System

Air Systems' innovative air cylinder cart has been ergonomically designed to help prevent back injuries and facilitate mobility. The Ergo-Air® Cart features one-hand operation during raising or lowering of the air control panel and cylinders.

No back strain is placed on the operator during pushing or pulling the cart. The basic cart design comes standard with Air Systems' unique air control panel and cart assembly. Several hose reel options are available to meet particular job applications.



Raising cart: 15 lbs. of force
Lowering cart: 35 lbs. of force



Ergo-Air® is a Registered Trademark of Air Systems International, Inc.

EAC-97NB
with Available Upper Storage Case

Available with twin auto hose reels and 16" pneumatic tires



Ergo-Air® Cart Details

- 2400 or 5000 psi rated air pressure regulator
- Steel air control panel with 4-outlet respirator manifold
- 16" semi-pneumatic rear tires and front locking swivel casters
- High pressure hardware with in-line check valves
- Twin cylinder straps with padded brackets
- Cart lifting hooks
- Cart Dimensions: 32" W x 41" D x 62" H

- Available steel upper storage cabinet:
Dimensions: 24" W x 12" H x 12" D

Ergo-Air® Cart Alarm Details

Dual 9-volt electronic low pressure audible and visual alarms supplied on the electronic versions only. Remote audible and visual alarm jack on all electronic versions.

Not approved for hazardous locations

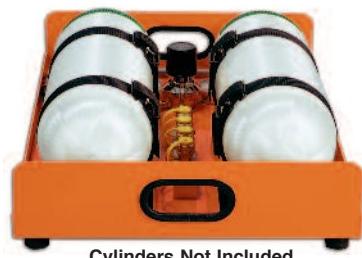
Low pressure alarm whistle is standard on the pneumatic version.
Bell alarm available.

Approved for hazardous locations

| Model No. | Description (Reels and Cylinders Sold Separately) |
|--|---|
| EAC-97NB EAC-97HNB | Semi-Pneumatic Tires - LP Alarm Whistle Ergo-Air® cart, 2400 psi regulator - Hazardous Location Approved Ergo-Air® cart, 5000 psi regulator - Hazardous Location Approved |
| EAC-97ENB EAC-97HENB | Semi-Pneumatic Tires - Electronic Alarm Ergo-Air® cart, 2400 psi regulator - For Non-Hazardous Locations Ergo-Air® cart, 5000 psi regulator - For Non-Hazardous Locations |
| EAC-97PTNB EAC-97PHNB | Pneumatic Tires - LP Alarm Whistle Ergo-Air® cart, 2400 psi regulator - Hazardous Location Approved Ergo-Air® cart, 5000 psi regulator - Hazardous Location Approved |
| EAC-97PENB EAC-97PHENB | Pneumatic Tires - Electronic Alarm Ergo-Air® cart, 2400 psi regulator - For Non-Hazardous Locations Ergo-Air® cart, 5000 psi regulator - For Non-Hazardous Locations |
| EAC-97150A EAC-97250A EAC-97300M EAC-97210M EAC-97450M H-300-5 H-300-3 EAC-97SBU EAC-C | Cart Options Single HR-50, auto hose reel - holds 50 ft. 3/8" hose Dual 50 ft. auto hose reels installed 300 ft. manual hose reel - holds 200 ft., 1/2" or 300 ft., 3/8" hose Dual 100ft. manual hose reels installed - holds 100 ft. 3/8" ID hose Manual hose reel - holds 450 ft. of 3/8" hose or 300 ft. of 1/2" ID hose Breathing air hose 1/2" ID - 300 ft. Breathing air hose 3/8" ID - 300 ft. Storage cabinet - upper Nylon cart cover - fits all Ergo-Air® carts |



PAK-UNI1
Cylinder Not Included



Cylinders Not Included

Accepts either 2216 psi or 4500 psi cylinders

Specifications:

- Steel frame with powder coat orange paint
- 2-outlet manifold
- Holds either a 2216 or 4500 psi SCBA cylinder
- Adjustable regulator and low pressure alarm whistle
- Specify desired respirator fittings when ordering
- Dimensions: 34" L x 7.4" W x 4.5" D
- Weight: 7 lbs. w/out cylinder

Ideal for working in hazardous locations or emergency response



UNI-PAK™ Single Cylinder PAK



**Optional UNI-PAK™ Carrier
SVH-DC25**
Cylinder Not Included

PORTA-PAK™ Twin Cylinder PAK



Specifications:

- High pressure 4500 psi regulator with CGA-347 connections, universal handtight nuts
- Low pressure alarm whistle
- Check valves in-line to allow independent cylinder operation and removal
- Orange powder coated aluminum frame with padded carry handles
- 4-outlet breathing air manifold with safety relief valve
- Quick connect couplings with dust caps; specify desired fittings when ordering
- Wall mount brackets and pull cart available
- Dimensions: 29" L x 21" W x 6" D
- Weight: 25 lbs. w/out cylinders



PAK-3
Cylinders Not Included



PAK-4R™ Rescue Cart With Removable Air Cylinder Tray



Specifications:

- CGA-347 operation at 4500 psi
- Adjustable cylinder straps with velcro
- 3-way high pressure directional cylinder valve
- High pressure male inlet, CGA-347
- Low pressure regulator for pneumatic tools
- 8" diameter ball bearing wheels
- Adjustable output regulator w/relief valve
- In-line check valves
- Telescoping aluminum handle
- Rear hose rack
- Removable air cylinder tray
- Low pressure alarm whistle
- Dimensions: 33" H x 25" W x 17" D
- Weight: 37 lbs. w/out cylinders



PAK-4R
Cylinders Not Included

| Model No. | Description |
|-----------|--|
| PAK-UNI1 | UNI-PAK™, single cylinder PAK, no cylinders |
| PAK-3 | PORTA-PAK™ tray assembly, no cylinders |
| PAK-4 | Bottled air tray assembly complete without cylinders, cart, or cover. Includes cylinder directional valve, secondary low pressure regulator, gauge, and outlet fitting |
| PAK-4R | PAK-4R™ Rescue Cart - same as PAK-4™ with PAK-CRT included |
| PAK-CRT | PORTA-PAK™ cart only |
| PAK-CRTC | Cart cover - aluminum |
| PAK-C | PORTA-PAK™ nylon cover |
| PAK-WM | PORTA-PAK™ wall mount brackets, 2 each |
| SVH-DC25 | Polyethylene carrier for PAK-UNI1 |

Accessories

- PORTA-PAK™ cart only
- Cart cover - aluminum
- PORTA-PAK™ nylon cover
- PORTA-PAK™ wall mount brackets, 2 each
- Polyethylene carrier for PAK-UNI1

Air Cylinder Carts

Large Cylinder Air Carts

Air-Wagon™

Mobile Plant Air Cylinder Carts for Emergency Response

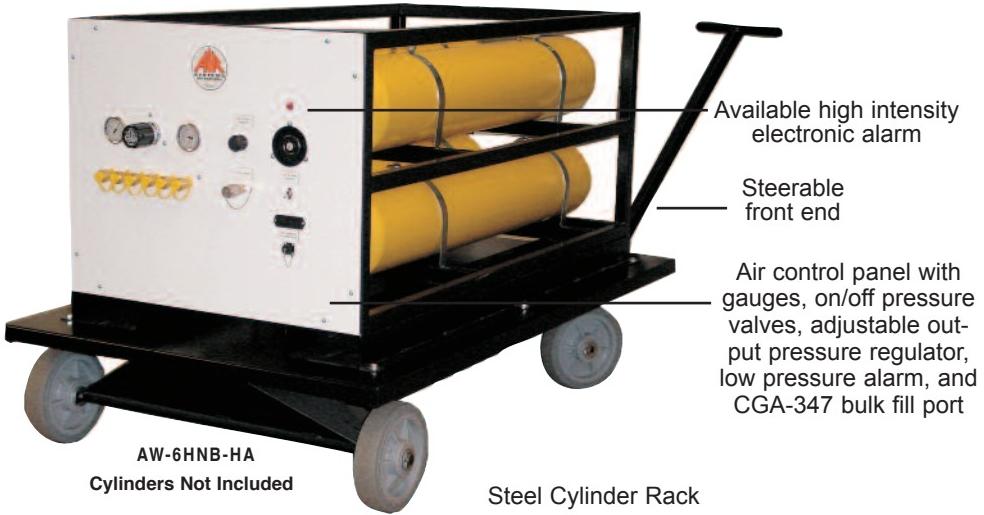
The Air-Wagon™ has been designed to hold four or six large breathing air cylinders for use in industrial plants and hospitals. A six outlet air control panel is installed with a low pressure alarm bell or optional electronic high intensity alarm. A CGA-347 male inlet is provided to bulk fill the air cylinders without removing from the cart. 10" semi-pneumatic tires provide ease of mobility.



**Customize A
Cylinder Cart to
Your Needs!**



**Our Engineering
Department will design a
cart to your specifications
and provide AutoCAD®
drawings for approval.**



AW-6HNB-HA
Cylinders Not Included

| Model No. | Description |
|------------|--|
| AW-6NB | For Hazardous Locations Air-Wagon™, includes hardware and cylinder straps for 6 cylinders, low pressure alarm bell - 2400 psi, order cylinders separately |
| AW-6HNB | Air-Wagon™, includes hardware and cylinder straps for 6 cylinders, low pressure alarm bell - 4500 psi, order cylinders separately |
| AW-6NB-HA | Not for Hazardous Locations Air-Wagon™, includes hardware and cylinder straps for 6 cylinders, electronic alarm - 2400 psi, order cylinders separately |
| AW-6HNB-HA | Air-Wagon™, includes hardware and cylinder straps for 6 cylinders, electronic alarm - 4500 psi, order cylinders separately |

PART NUMBERS AND DESCRIPTIONS SUBJECT TO CHANGE

**All carts can be customized to
your particular application.
Consult customer service for
more details**

Custom High Capacity Breathing Air Cylinder Carts and Trailers

Air Systems' experienced technical staff and engineering department can design a breathing air trailer with custom storage and air delivery for ANY application. Custom mobile air cylinder carts are available for industrial plant and emergency response applications.



Emergency Response Open or Enclosed Trailers for Long Duration Breathing or Cylinder Filling Applications



Long Duration Air Storage for Work in Hazardous Response Locations



Economical Air-Responder™ Trailer for Emergency Response Breathing Air and Filling Applications



Slide-In Vehicle Cylinder Rack Systems for Breathing and Filling Applications

Custom Rack Designs for Mobile Breathing Air Applications and Quick Filling of SCBA Cylinders



Contact Customer Service for Details

Fire & Rescue

Technical Rescue Cart

Tech-Rescue™ Cart

The patented Tech-Rescue™ Cart was designed to provide air for all of the various respirators and unique rescue tools used by Fire and Technical Rescue teams.

Air Systems designed a unique stainless steel cart with a color-designated control panel - one side for primary respirator breathing air and the other for tool / secondary air requirements.

Two 2216/4500 psi cylinders or high pressure cascade (fire truck) cylinder air can be used to operate the air control panel.

The standard features of the Tech-Rescue™ Cart make it the most versatile and unique air cart in the fire service industry.

The Tech-Rescue™ cart is available with a 5 ft. Quick-Fill hose assembly (pictured below.)



Quick-Fill Hose Installs on rear of Cart



MP-TR1

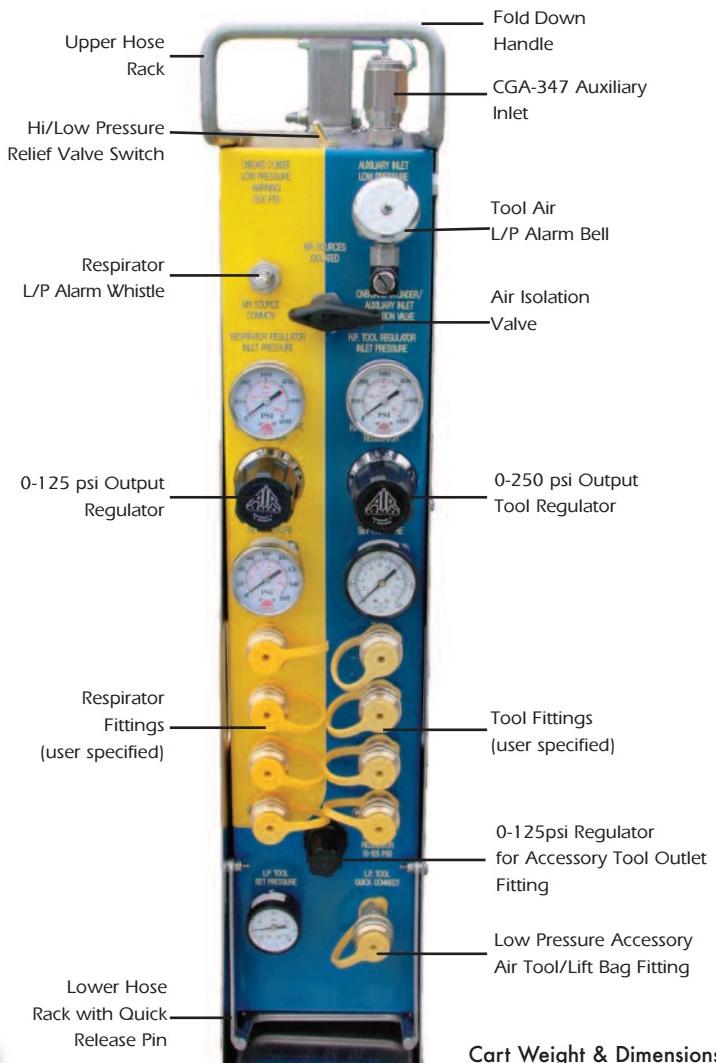
FD-17 Aeroquip® Quick-Fill Couplings



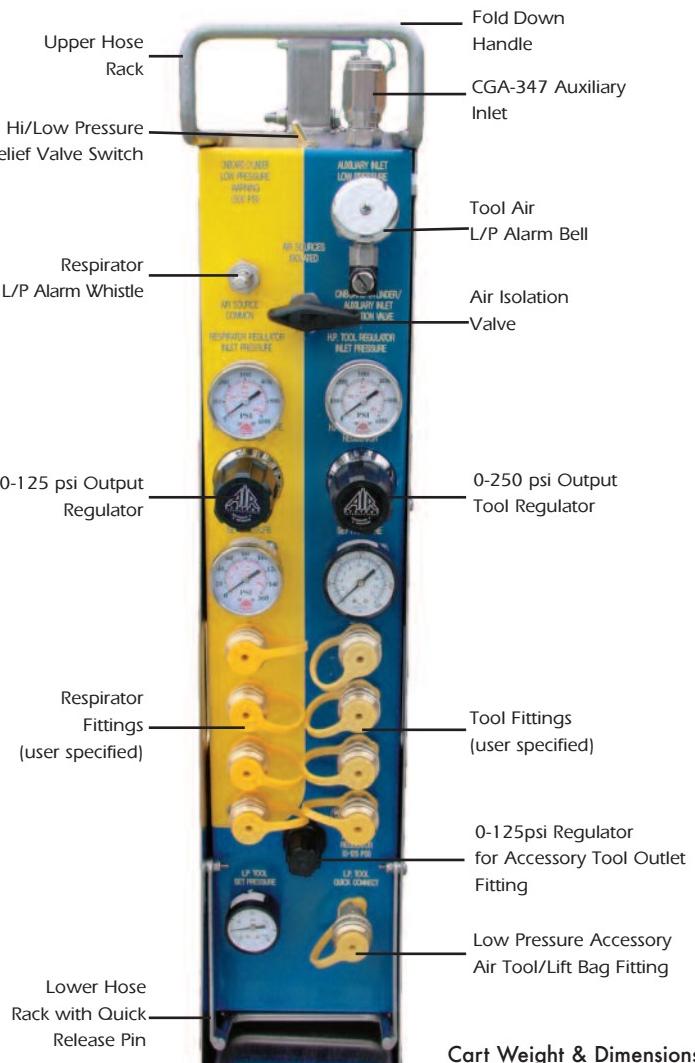
QFH-5MPTR1 Shown

| Model No. | Description |
|------------|---|
| MP-TR1 | Tech-Rescue™ Cart, 1/4" Hansen style or Schrader style fittings standard Optional fittings available at an additional charge. (Cylinders sold separately) |
| QFH-5MPTR1 | Accessories 5ft Quick-Fill hose installed on MP-TR1 (installed at time of order) 87cf carbon fiber cylinder, 4500 psi 60cf aluminum cylinder, 2216 psi |
| AC-87 | 25 ft. (300") high pressure connect whip, CGA-347 hand-tight on each end with bleed valves, connects from cart to truck cascade air supply - 5000 psi |
| AC-60 | Black nylon cart cover, fits all small Multi-Pak™ Series carts |
| CW-300 | |
| MP-C | |

Yellow Side Respirator Air Control



Blue Side Tool Air Control



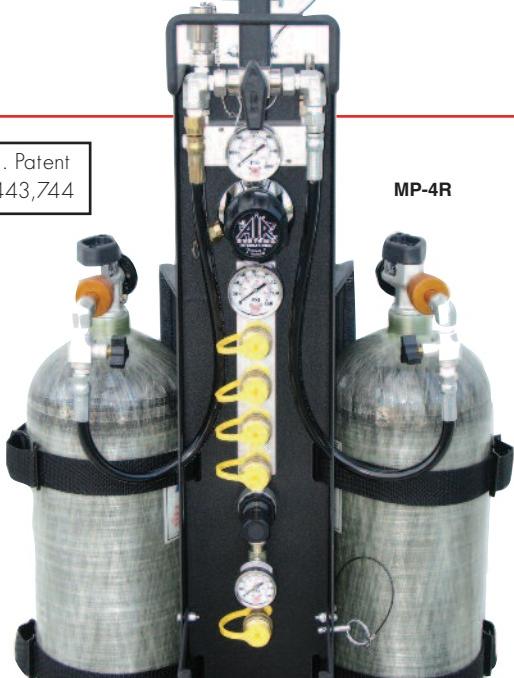
Cart Weight & Dimensions

| | |
|--------------------------|---------|
| Width: | 21.0" |
| Depth: | 15.5" |
| Height with Handle Down: | 34.5" |
| Height with Handle Up: | 41.5" |
| Weight: | 55 lbs. |



Emergency Area Lighting Available
See pages 59-64

U.S. Patent
#D443,744



MP-4R

MULTI-PAK™ Rescue Air Cart

The patented MULTI-PAK™ series of small air cylinder carts has been designed with the user in mind. Choose from many basic designs to fit the simplest or most complex job application. All of the small MULTI-PAK™ carts feature fold-down handles, recessed air control panels, rounded cart corners, quick release hose racks, and many other unique features.

Choose the pressure range and the number of fittings that you require. All carts have input and output pressure gauges.

| Model No. | Description |
|-----------|---|
| MP-4R | MULTI-PAK™ Rescue Air Cart, 2-cylinder, 4500 psi, air cart designed for the fire/rescue market. Supplied with 4-outlet manifold, powder coat steel frame, high flow regulator, CGA-347 hand-tight nuts, cylinder selector valve, additional 0-125psi regulator with 1-outlet manifold for low pressure tools or lift bags, no cylinders |
| MP-4RSS | MULTI-PAK™ Rescue Air Cart, Stainless Steel , same as MP-4R above, no cylinders |



Cart Specifications

- High pressure CGA-347 auxiliary inlet
- Secondary low pressure regulator to operate pneumatic tools and lift bags
- Fold down handle
- Intrinsically safe low pressure alarm whistle
- High flow adjustable regulator
- Input and output pressure gauges
- Solid aluminum block manifold
- Nylon cylinder straps with Velcro®
- Quick release hose rack
- In-line check valves
- 8" Semi-pneumatic tires
- Steel frame with black powder coat paint
- Stainless Steel frame available
- Cylinder selection switch



The Air-Responder™ Mobile Breathing Air Trailer

The Air Responder™ series of breathing air trailers are designed for mobile quick response at an economical price. The trailers provide breathing air for airline respirators, rescue air tools, or SCBA quick filling and come in two series. The 100 series is an open frame six (6) cylinder trailer. The 200 series is an enclosed eight (8) cylinder trailer. Both trailers have a rear air control panel with respirator couplings and CGA-347 fittings to bulk fill the storage cylinders and provide for attachment of a quick fill hose for SCBA filling. An optional cascade fill panel is available for both trailer series. The front of each trailer will hold optional storage boxes, a small fill compressor or a generator.



Spitfire™ Positive Pressure Ventilators

Available in:

- Standard Electric
- Explosion-proof Electric
- Variable Speed Electric
- Gasoline

U.S. Patent #'s
D484,586S,
D484,589S
Other U.S. and Foreign
Patents Pending



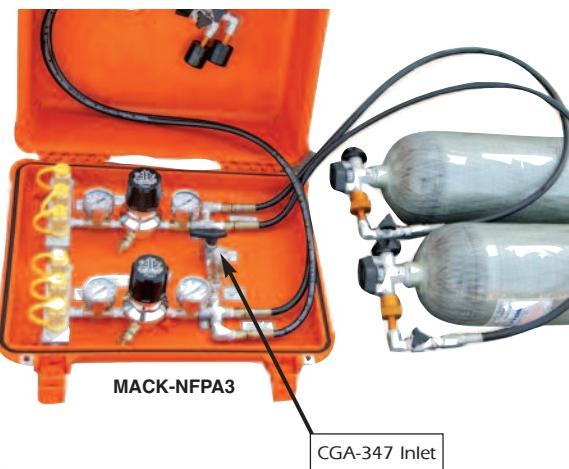
| Model No. | Description | HP | CFM |
|-----------|--|-----|--------|
| PPV-20GH | Gasoline Honda | 6.0 | 15,277 |
| PPV-20E | Single Speed Electric-TEFC | 1.5 | 11,198 |
| PPV-20EV | Variable Speed Electric-TEFC | 1.0 | 10,987 |
| PPV-20EXP | Explosion-Proof Electric, TEFC, Class I, Div. 1, Group D, Class II, Div. 1, Groups E, F, G | 1.0 | 9,185 |

MACK-NFPA™ Series

Air Distribution System Designed Specifically for Confined Space Rescue Teams

The MACK-NFPA™ series has been developed specifically for Fire/Rescue teams working under NFPA guidelines. The NFPA version of the MACK™ unit comes in two standard models. Each has two separate regulator/manifold systems and two SCBA connect whips are provided for each regulator. In the event of a regulator malfunction, rescue can be performed on the standby regulator system. The basic unit described above, Model MACK-NFPA1, can have a regulator isolation valve added to allow one or both air sources to be used simultaneously; this addition forms the Model MACK-NFPA3 which has a CGA-347 high pressure inlet included.

| Model No. | Description |
|------------|--|
| MACK-NFPA1 | Dual independent regulators with 3-outlet manifolds, dual low pressure alarms, 4 each 5 ft.connect whips |
| MACK-NFPA3 | MACK-NFPA1 with the addition of a regulator isolation valve and CGA-347 H/P inlet and cover cap |



MACK™ Systems

Air Distribution for Breathing, Filling, and Rescue Applications

The MACK™ units have been designed as a series of portable air distribution boxes to meet the most demanding air handling needs of the Fire, Rescue, and Emergency Response industry. Each unit has been designed and tested by professional firefighters to meet the rigorous industry and NFPA requirements.

All models have been manufactured to provide emergency low pressure breathing air from either SCBA cylinders or from a bank of large storage cylinders located on department vehicles. More advanced models offer multiple air pressure regulators for confined space rescue operations, mid-range pressure for rescue tool devices, and high pressure emergency air cylinder filling systems. Choose a standard MACK™ unit to fit your needs or call our Customer Service Department to design a unit for your special air handling applications.



The MACK-2™ is ideal for emergency refilling SCBA cylinders from aerial command stations



All MACK™ Series units start with the MACK-1 basic functions. One or two SCBA cylinders provide air to the system. A CGA-347 high pressure inlet is also provided to allow continuous operation from truck mounted air cylinders. A low pressure regulator provides 0-125 psi air to a four outlet respirator manifold. A low pressure alarm whistle and a DC lamp to illuminate the case interior are provided as standard.

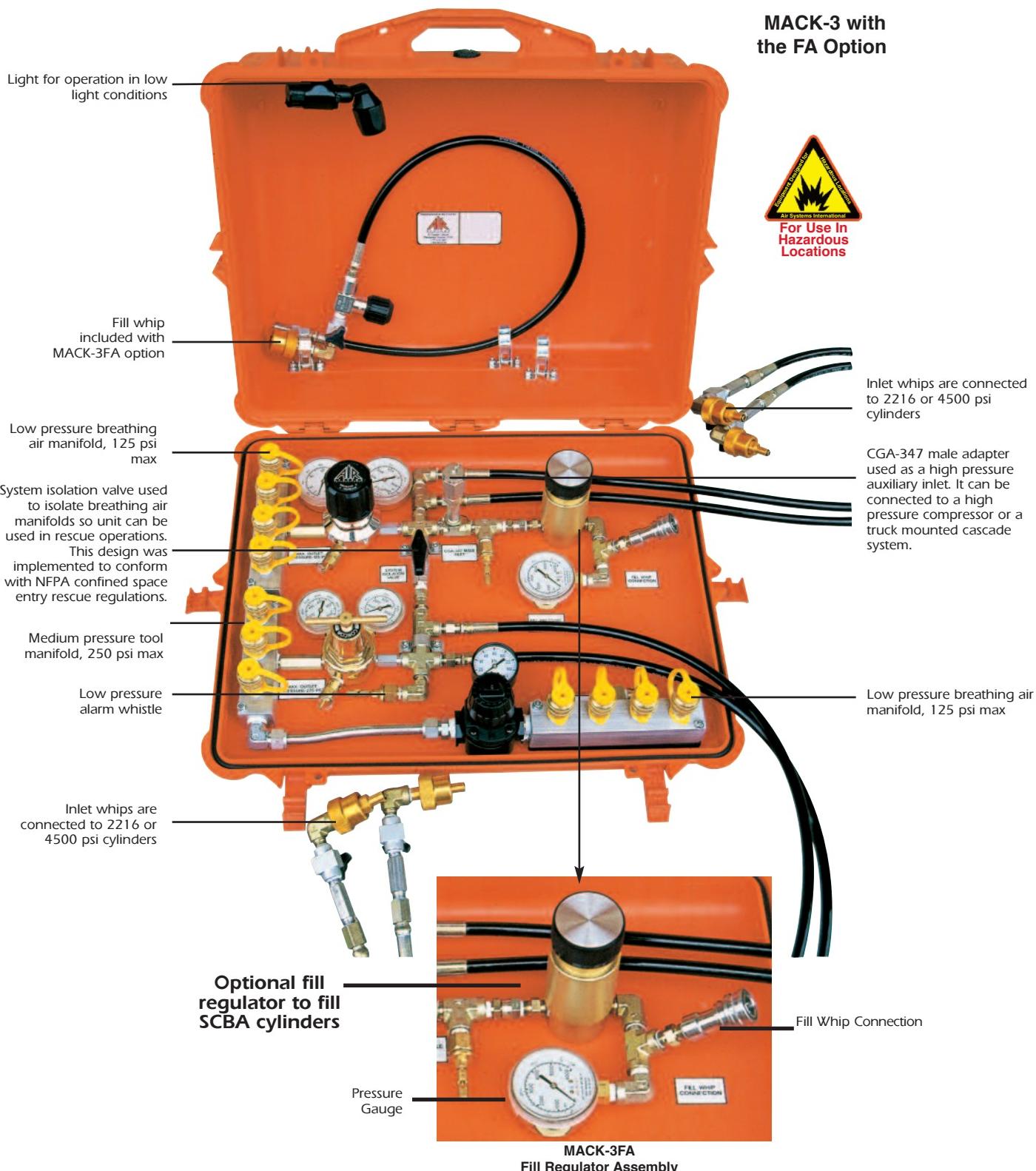


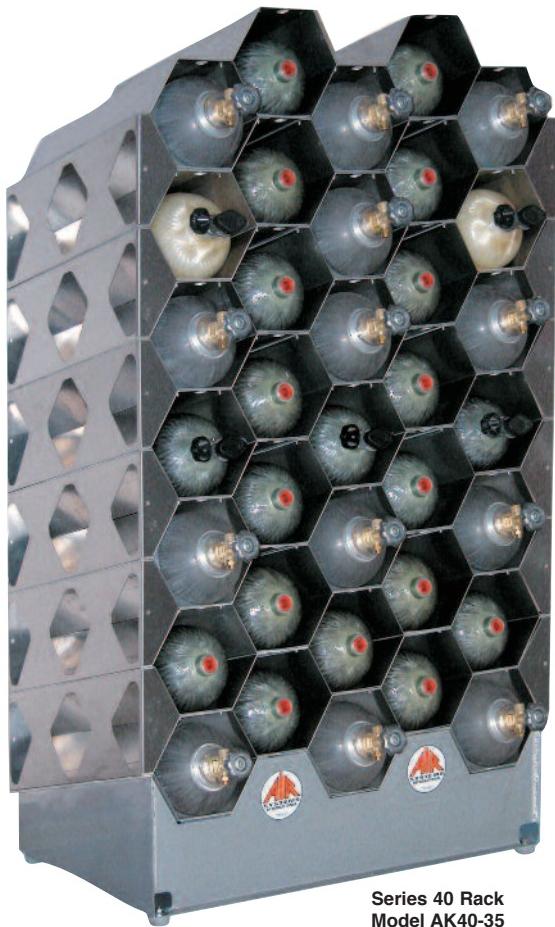
| Model No. | Description |
|-----------|--|
| MACK-1 | 4-outlet manifold, 5000 psi regulator, 2 high pressure cylinder whips, 1 H/P inlet port, L/P alarm whistle |
| MACK-2 | MACK-1 with the addition of a high pressure fill regulator and 1 fill whip (optional 2nd fill whip available for installation) |
| MACK-3 | 8 L/P respirator/tool outlets (0-150psi), 3 medium pressure outlets (0-250psi), 4 H/P inlet whips, 1 H/P CGA-347 inlet and pressure cap, L/P alarm whistle, optional fill regulator and hose |
| MACK-3FA | Accessories Fill regulator assembly for MACK-3, includes 5ft. fill hose |

The MACK-3™ System

Designed and Tested by Fire & Rescue Professionals

Four separately regulated air systems provide a portable air distribution package for any pressure requirement.





Series 40 Rack
Model AK40-35

AIR-KADDY™ Modular Aluminum SCBA Cylinder Storage Racks

The AIR-KADDY's™ unique modular design allows for expansion as needed to accommodate your SCBA storage requirements - today and in the future! Available in Free Standing, Series 40, and Vehicle Style, Series 24. All racks are lined with nylon pads to prevent cylinder scratches.



Series 24 Rack
Model AK24-11TS

Series 24 is designed to fit in fire/rescue trailers and trucks requiring a narrower profile.



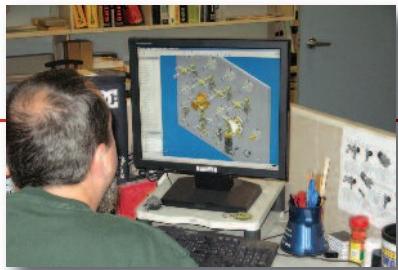
Rack can be ordered with an optional L-Cart for easy transportation



Thread Saver®

Thread Savers®
Add TS to the model number when ordering to have Thread Savers® installed.

| Model No. | Description |
|-----------|---|
| AK24-8 | Series 24: 25 1/4" W X 22 1/4" D AIR-KADDY™ 8 cylinder rack - 32"H |
| AK24-11 | AIR-KADDY™ 11 cylinder rack - 48"H |
| AK24-18 | AIR-KADDY™ 18 cylinder rack - 60"H |
| AK24-24 | AIR-KADDY™ 24 cylinder rack - 76"H |
| AK40-15 | Series 40: 37 1/2" W X 22 1/2" D AIR-KADDY™ 15 cylinder rack - 36"H |
| AK40-25 | AIR-KADDY™ 25 cylinder rack - 60"H |
| AK40-35 | AIR-KADDY™ 35 cylinder rack - 68"H |
| AK40-40 | AIR-KADDY™ 40 cylinder rack - 76"H |
| VAL-TS | Thread Savers® Thread Saver® - cylinder thread protector |



**Products engineered to
your specifications**

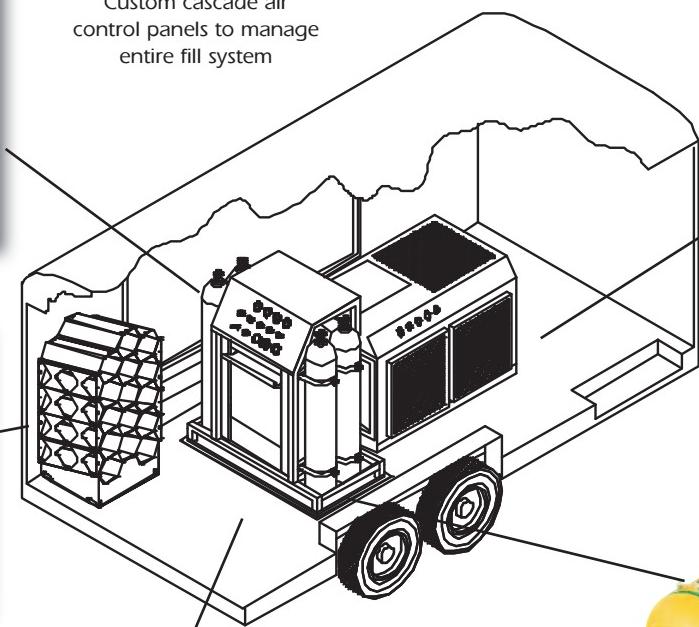


Air Systems' experienced technical staff and engineering department can design a mobile breathing air response system tailored to your exact specifications. Complete our design questionnaire available on page 70 or online at www.airsystems.com and we will provide AutoCAD® drawings, specifications and pricing.



Custom SCBA Storage
Using Air Systems'
Unique AIR-KADDY™
SCBA Cylinder Racks

Custom cascade air
control panels to manage
entire fill system



Gasoline or Diesel Fill
Compressors from 3.5 to 26 cfm



Air Storage Systems in horizontal
or vertical configurations



NFPA Compliant Full
Containment Fill
Stations from 2 to 4
cylinder fill positions



Fully Enclosed Breathing Air
Trailer with Fill Compressor, Air
Storage Cylinders and
Containment Fill Station

Optional sound proofing, air
conditioning or heating
packages, generators and lighting



Slide in vehicle rack
systems to upgrade
rescue vehicles

Hazardous Location Identification: Selecting Proper Equipment

Confined spaces are some of the most dangerous and potentially life-threatening work environments in industry, making ventilation, respiratory and PPE equipment an integral component of a total safety program. U.S. OSHA states “electrical equipment must be approved by a Nationally Recognized Testing Laboratory (NRTL) “ . . . and stated in 29 CFR 1910.303(a). In addition, NRTL’s must approve this equipment using U.S. recognized test standards, 29 CFR 1910.7.” Proper selection and training with approved hazardous location safety equipment can reduce the cause of potential accidents and even loss of life. In order to select the proper equipment, the worker must first determine whether the location is considered a “Hazardous” or “Non-Hazardous” location.

What is a Hazardous Location?

All confined spaces should be considered a “Hazardous Location” until proven otherwise. Federal OSHA refers to the National Electrical Code (NEC) as the “Bible” for reference information concerning hazardous locations. NEC defines a hazardous location as those areas “**where fire or explosion hazards may exist due to flammable gases or vapors, flammable liquids, combustible dust, or ignitable fibers or flyings.**”

NEC classifies hazardous locations in three ways: Type, Condition, and Nature.

Type

Three “**Types**” of hazardous conditions exist called Classes, describing the type of hazard expected:

CLASS I (NEC-500-5) - Areas in which flammable gasses or vapors may be present in the air in sufficient quantities to be explosive or ignitable.

CLASS II (NEC-500-6) - Areas made hazardous by the presence of combustible dust

CLASS III (NEC-500-7) - Areas in which easily ignitable fibers or flyings present, due to the type of material being handled, stored, or processed

Condition

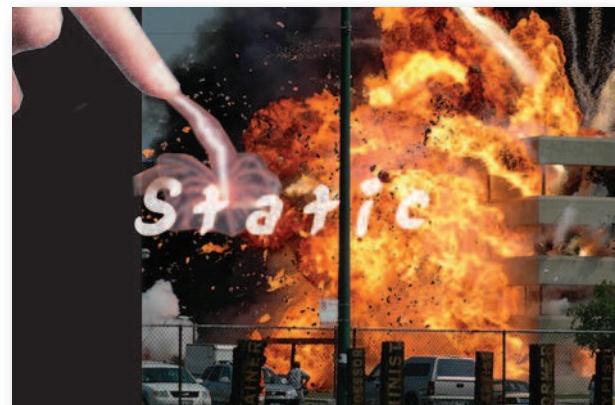
Two kinds of hazardous “**Conditions**” exist called Divisions:

DIVISION I (NEC-800-5, 6, 7) - The hazard is present continuously

DIVISION II (NEC-500-5, 6, 7) - The hazard is atypical - may occur accidentally such as a ruptured drum of fuel or chemical spill

Nature

The “**Nature**” of the hazardous substance is called a Group (NEC-500-3).



Groups A, B, C, or D where Group A is most volatile (Acetylene) and Group D would be least flammable (Propane). All Class I locations, Flammable Gases and Vapors, fall into Groups A, B, C or D.

Groups E, F, and G where Group E is conductive and explosive metal dust, Group F is carbon (coal) dust, and Group G is flour and grain dust. All Class II locations, Combustible Dusts, fall under Groups E, F or G.

Not Grouped - Hazards consisting of textile and wood fibers. Class III locations, Ignitable Fibers for Flying, are not grouped.

Ventilation Tips

- 1) Proper ventilation procedures should be followed in accordance with all Federal, State, and local laws. For work in hazardous locations, follow ANSI/API 2015 and 2016 procedures.
- 2) Always test the confined space for hazardous gases and sufficient oxygen with a calibrated multi-gas monitor prior to ventilating the space. After ventilating for a sufficient amount of time, re-test the confined space before entering the space. Ventilation must remain in operation during entry.
- 3) Use a purge time chart, provided on Air Systems’ blowers, to calculate purge times prior to entering a confined space. Each 90° bend in a section of 8" duct will reduce flow approximately 10-15%.
- 4) If toxic or combustible gases or low oxygen levels are encountered, increase ventilation purge times by 50% and retest the air quality.
- 5) When ventilating a manhole or tank, always set the blower back from the opening a minimum of five (5) feet. This should prevent any hazardous gases that may be purged from the confined space from being drawn back into the intake of the blower and forced back into the confined space.
- 6) Never block or restrict entry and egress to or from a confined space opening. Always use Air Systems’ Conductive Saddle Vent® System placed in the opening of the manhole or tank to allow continuous ventilation without restricting entry and egress to the opening.
- 7) With gases heavier than air, ventilation duct should be placed at the bottom of the confined space allowing the blower’s air to push the gases out the top of the confined space.
- 8) Always use non-sparking tools in and around a hazardous work site
- 9) When using a Venturi style pneumatic air horn (also called an eductor) on a steel tank, make sure the aluminum base is not dragged along the surface of the steel tank; this may cause a spark where rust is forming. Always make certain that the Venturi blower has been properly bonded to the tank prior to ventilating and assure the tank is properly grounded.
- 10) Always have proper respiratory equipment for the ventilated work space and for emergency rescue.
- 11) The build-up of static electricity is more prevalent during cool dry conditions, typically below 50% relative humidity. Depending on the work environment, anti-static clothing and special static removal devices may be necessary to prevent ignition from static electrical discharge.



Ventilation Equipment Selection for Hazardous Locations

Once it is determined there is a hazardous location or potential for a hazardous work location, it is necessary to take every precaution to guard against ignition of the hazardous atmosphere. The traditional "Combustion Triangle" is made up of three elements: 1) fuel, 2) oxygen and 3) an ignition source. All three must be considered when developing a plan to ventilate hazardous or potentially hazardous environments.

Hazardous location electrical equipment, approved by a Nationally Recognized Testing Laboratory (NRTL) such as UL or CSA, is designed and constructed to eliminate the potential for ignition of the work environment.

The following is a list of equipment criteria to consider for all hazardous locations:



Explosion-Proof Electric Products - Units should have a hazard label stating Class, Group, and Division approvals listed from the approving agency, e.g. CSA or UL. Blowers should have a grounding lug to ground the unit and safely remove the build-up of static electricity to a safe grounded source. These types of electric blowers should have a metal frame and housing or a conductive plastic housing to assure a good ground to the electrical source and an aluminum non-sparking blower wheel to prevent metal sparking.



Intrinsically Safe Equipment - Electrical equipment should be certified as intrinsically safe due to its low voltage properties. Pneumatic or air driven equipment cannot cause a spark and do not require third party electrical approval because there are no electrical parts. Even with intrinsically safe equipment, proper grounding and non-sparking components should still be utilized at all times.



Conductive Ducting - Choose ventilation duct that has fabric made of conductive material. This type of duct will reduce the potential build-up of static electricity on both the interior and exterior surfaces of the duct that can result from the movement of air and small dust particles during ventilation. Air Systems adds a grounding wire to the conductive duct's interior wire helix; it attaches to the blower so that any static charges can be removed to either the blower's ground lug or to Air Systems' Conductive Saddle Vent® Ventilation System.

Controlling Static Electricity in Hazardous Ventilation Locations

The Saddle Vent® was developed and patented by Air Systems International over 25 years ago as a safety tool to maintain continuous ventilation while allowing unrestricted entry and egress to a manhole or tank. Air Systems has continued to improve the Saddle Vent® by developing a fully conductive Saddle Vent® and a ventilation method for removing static electricity from the entire ventilation system. This system consists of the entire length of ventilation duct all the way back to the blower and safely discharging static to a safe electrical ground.

The new recommended method, The Conductive Saddle Vent® Ventilation System, uses conductive ventilation ducting connected to the Conductive Saddle Vent® which is then connected to an explosion-proof or pneumatic blower. The entire system is assembled above ground in less than five minutes before installing it in the opening to the manhole or tank; it can then be tested for electrical conductivity using a standard ohm meter.

Achieving an electrical resistance reading less than 500K ohms will assure an electrical path is made for static electricity to safely discharge back to the blower and its grounded electrical connection. This ventilation system is the only safety industry method for safely removing static build-up during confined space entry; it provides continuous confined space ventilation, unrestricted entry and egress and the entire system can be tested prior to commencing work operations in a hazardous work area.

Controlling static electricity discharge will prevent spontaneous ignition of hazardous vapors and dusts. As a work tool, The Conductive Saddle Vent® Ventilation System will allow workers to concentrate on the many other hazards associated with working in a confined space while maintaining continuous ventilation.



Conductive Saddle Vent®
SV-189CND

The Original Saddle Vent®

Designed for use in Non-Hazardous Locations

The Saddle Vent® was developed by Air Systems and in use around the world for over 20 years to make it easier and safer for workers to enter and exit a confined space. The Saddle Vent® takes up only 3 inches in a manhole opening and functions as a fresh air conduit to the workers in the confined space. With the Saddle Vent® in place, continuous ventilation is supplied to the workers by eliminating the need to remove the air duct each time a worker needs to enter or exit a confined space, increasing safety and productivity.



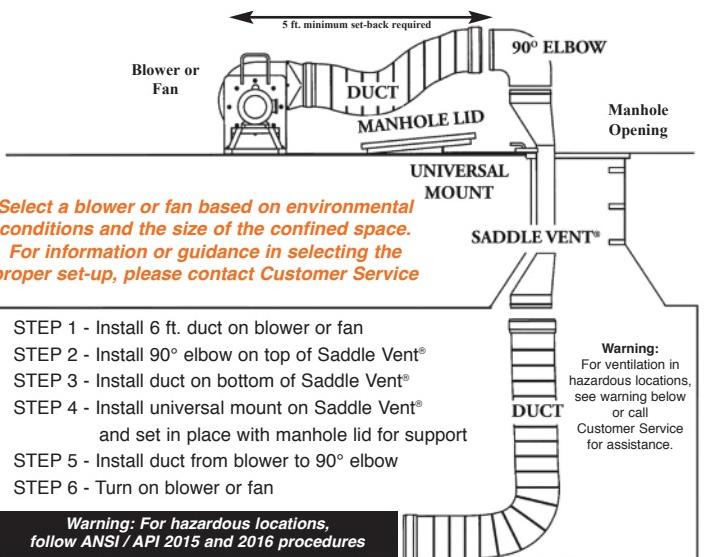
The Saddle Vent® allows unrestricted entry and exit and improves ambient light in a confined space opening



Length: 43.5"
Width: 14.5"
Depth: 3.5"
Top Opening: 8" O.D.
Bottom Opening: 8" O.D.
Construction: Polyethylene
Temperature Rating:
+250°F Melt Temp.
- 158°F Brittleness Temp.

The Saddle Vent® Ventilation System

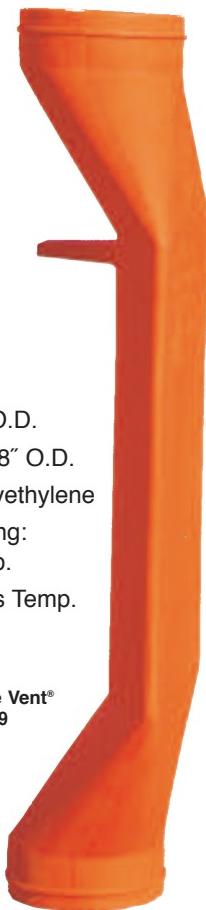
Typical Saddle Vent® Setup Procedure



WARNING: HAZARDOUS LOCATION OPERATIONS

Use a certified explosion-proof blower or fan, conductive ducting and the conductive Saddle Vent® system. Attach all grounding wires and assure a complete circuit to the blower in order to remove static charges.

The Saddle Vent®
SV-189



Saddle Vent® is the Registered Trademark of Air Systems International



90° Elbow
SV-90

| Model No. | Description |
|-----------|---|
| SV-189 | Non-Hazardous Locations |
| SV-90 | 90° elbow for Saddle Vent® |
| SV-UM | Universal Saddle Vent® Mounting Bracket |



Confined Space Ventilation

The Conductive Saddle Vent®

The Conductive Saddle Vent® System

Approved for use in Hazardous Locations
The Latest Innovation in Saddle Vent® Technology



The Conductive Saddle Vent® System is now standard with our explosion-proof & pneumatic blower kits or it can be purchased separately to upgrade your current ventilation procedures.

The Conductive Saddle Vent® System Set Up Procedure

Step 1) Select an electric explosion-proof or pneumatic blower with an installed metal grounding lug.

Step 2) Read and follow recommended work procedures found in ANSI/API 2015 and 2016 prior to entering a tank or confined space.

Step 3) Use only conductive ducting supplied with a continuous metal helix and a static ground wire connected to the helix. The ground wire is connected to the metal ground lug on the blower. (See Pic. 1).

Step 4) Attach the conductive elbow to the top of the black Conductive Saddle Vent®, (see Pic. 2), and attach the ground wire from the duct to the elbow. If no elbow is used, an alternate ground lug is provided on the top of the Saddle Vent®.

Step 5) Attach conductive duct to the base of the Saddle Vent® and attach the ground wire to the Saddle Vent®.

Step 6) Test the ventilation set-up for conductivity prior to starting ventilation. Use a volt/ohm meter set to read ohms in "thousands".

Attach a lead from the meter to the farthest end of the duct's grounding wire and the other lead touching the ground lug on the blower. A reading less than 500K ohms will assure a good ground is achieved to allow any static charges to flow toward the grounded source (See Pic. 3). Pneumatic blowers should have a ground wire run from the blower to a grounded source.

Step 7) The ventilation system is now ready for use. Place the duct and Saddle Vent® system in the manhole and secure with the universal mount. Follow the "Typical Saddle Vent® set-up procedure found in your blower's instruction manual.

For work in hazardous locations, read and follow recommended work procedures found in ANSI/API 2015 and 2016 prior to entering a tank or confined space.

Saddle Vent® Safety Improvements

The original Saddle Vent® was constructed of standard polyethylene which carries the potential of static electricity build-up on its surface.

Static electricity is a source of ignition for fire and explosions.

Air Systems developed an improved Saddle Vent® to safely remove potential static electricity charges from the ventilation system. The use of conductive polyethylene to construct the Saddle Vent® and conductive ventilation duct now provides the safest possible confined space ventilation procedure available.

The fully Conductive Saddle Vent® removes static electricity from the entire ventilation system when installed properly.

Saddle Vent® is a Registered Trademark
of Air Systems International, Inc.

U.S. Patents #6,843,274
#7,467,645
#7,992,593 B2
Canadian Patents #2,561,299
#2,436,809
China Patents CN1813137B
European Patents #1491695
Australian Patents 2004 202394
Other U.S. and International
Patents Pending



Length: 43.5"
Width: 14.5"
Depth: 3.5"
Top Opening: 8" O.D.
Bottom Opening: 8" O.D.
Construction: Polyethylene
Temperature Rating:
+250°F Melt Temp.
- 158°F Brittleness Temp.

Conductive
Saddle Vent®
SV-189CND



90° Conductive Elbow
SV-90CND



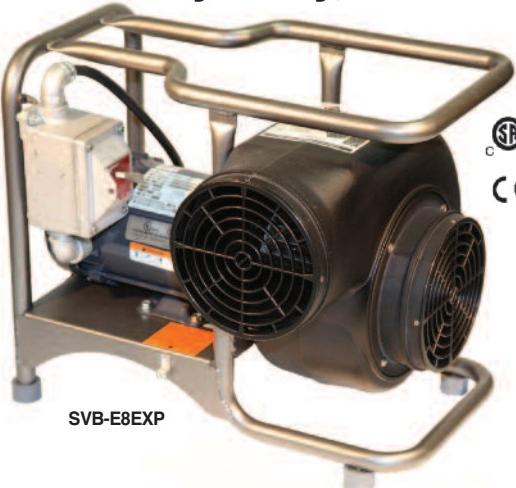
| Model No. | Description |
|-----------|---|
| SV-189CND | Hazardous Locations |
| SV-90CND | The Conductive Saddle Vent® |
| SV-UM | 90° elbow for Conductive Saddle Vent® |
| | Universal Saddle Vent® Mounting Bracket |

Confined Space Ventilation

Hazardous Location Ventilation

Centrifugal Blowers

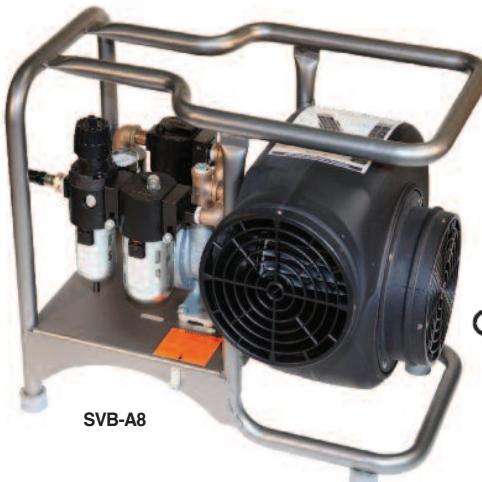
Heavy Duty, Industrial Grade, Ergonomically Designed



SVB-E8EXP



*International blowers available.
Contact Customer Service for details and specifications.*



SVB-A8

Explosion-Proof Electric Blower

- Explosion-proof switch installed and wired with 25 ft cord, no plug, user wired per NEC requirements
- 3/4 HP electric motor, 115 VAC, 12.6 amp
- Approved for Class I, Div. 1, Groups C and D Class II, Div. 1, Groups E, F, G
- CSA approved and CE registered
- Conductive Polyethylene fan housing
- Aluminum non-sparking blower wheel
- Static grounding lug installed
- Powder coat tubular steel frame with dual handles
- Molded conductive safety guards
- 8" intake and exhaust flange
- Weight: 68 lbs.
- 1570 cfm, free air delivery
- 1047 cfm, 25ft duct, 1 - 90° bend

Inlet Filters are available for all models. See page 57 for details

Saddle Vent® Ventilation™ Technology



All Conductive Blower Kits Include:

- 1) Pneumatic or Explosion-proof Blower
- 2) Conductive Saddle Vent®- SV-189CND
- 3) 90° elbow for Saddle Vent®- SV-90CND
- 4) 15 ft. duct - SVH-CND15
- 5) 6 ft. duct - SVH-CND6
- 6) Duct canister (holds 50ft. of duct) - SVH-DC25
- 7) Universal mount - SV-UUM

Pneumatic Air Powered Blower

Intrinsically Safe Operation

- 4HP air motor, operates from 10 - 100 psi
- Ultra-quiet operation – under 80 dbA
- CE registered
- Conductive Polyethylene fan housing
- Aluminum non-sparking blower wheel
- Static grounding lug installed
- Powder coat tubular steel frame with dual handles
- Adjustable flow output regulator
- In-line moisture separator/lubricator provided as standard
- Air Systems' unique muffler and oil coalescing filter installed at air motor discharge
- 8" intake and exhaust flange
- Molded conductive safety guards
- Weight: 48 lbs.
- 1500 cfm free air delivery, at min psi and cfm
- 1040 cfm free air delivery, at min psi and cfm, 25ft duct 1 - 90° bend
- 3000 cfm free air delivery, at max psi and cfm
- 1725 cfm free air delivery, at max psi and cfm, 25ft duct 1 - 90° bend

Conductive Saddle Vent® Ventilation Kits for Hazardous Locations



SVB-E8XCUP

| Model No. | Description |
|------------|---|
| SVB-E8XCUP | Explosion-Proof 8" Electric Blower Kit, includes SVB-E8EXP blower and SV-CUPCND Conductive Saddle Vent® Ventilation Kit |
| SVB-A8CUP | Pneumatic 8" Blower Kit, includes SVB-A8 blower and SV-CUPCND Conductive Saddle Vent® Ventilation Kit |
| SV-CUPCND | Kit only - Includes Conductive Saddle Vent® and elbow, 6 and 15 ft Conductive duct, Duct canister, and universal mount |

Confined Space Ventilation

Hazardous Location Ventilators

Saddle Vent® Ventilation™ Technology

Inline Axial Fan

The 10" in-line axial fan has been designed to be used as a stand alone fan or it can be attached in series to run long lengths of ventilation duct. Intake and exhaust flanges allow for either 8" or 10" duct to be attached to either end of the blower to achieve positive or negative ventilation. The blower is made of light weight steel and is available in standard electric or explosion-proof electric.

10" to 8" Duct Adapters
Supplied with Blower for
Intake and Exhaust



ATEX Approved Motor Available.
Contact Customer Service for
details and specifications.



Hook Multiple Blowers in Series to Run
Long Sections of Duct



10" In-Line Explosion-Proof Electric Axial Fan

- Explosion-proof Electric Motor: 1/3 HP, 115 VAC, 1-phase, 60 Hz. UL and CSA approved for Class I, Div. 1, Groups C and D, Class II, Groups E, F, and G - built-in on/off switch
- Automatic reset thermal overload
- Dual grounding lugs installed on steel housing
- Frame: All steel, powder coat red with rubber base feet
- Inlet/Exhaust flange made of molded conductive polyethylene
- Power cord: 10ft. power cord without plug, user wired per NEC requirements
- Dimensions: 16" L x 16.75" H x 12.5" W
- Weight: 32 lbs.
- 72 dbA @ 3ft.
- 1390 cfm, free air delivery
- 973 cfm, 25ft duct, 1 - 90° bend

| Model No. | Description |
|------------|---|
| SVF-10EXP | 10" Explosion-proof Electric In-Line Fan - plug not provided |
| SVF-10X220 | 10" Explosion-proof Electric 220 VAC, 50/60 Hz, ATEX approved motor |

Conductive Saddle Vent® Ventilation Kits for Hazardous Locations

Conductive Fan Kits Include:

- 1) Explosion-proof Fan, SVF-10EXP
- 2) Conductive Saddle Vent® - SV-189CND
- 3) 90° elbow for Saddle Vent® - SV-90CND
- 4) 15 ft. duct - SVH-CND15
- 5) 6 ft. duct - SVH-CND6
- 6) Duct canister (holds 50ft. of duct) - SVH-DC25
- 7) Universal mount - SV-UM



SVF-10EXCUP

| Model No. | Description |
|-------------------------|--|
| SV-CUPCND SVF10EXCUP | Includes Conductive Saddle Vent® and elbow, 6 and 1.5 ft Conductive duct, Duct canister, and universal mount Explosion-Proof 10" Electric Fan Kit, includes SVF-10EXP fan and SV-CUPCND Conductive Saddle Vent® Ventilation Kit |

Confined Space Ventilation

Hazardous Location Ventilators

Contractor Grade Explosion-Proof Axial Fans



The contractor's series of ventilation fans is the latest addition to Air Systems' ventilation product group. Known for product quality and performance, Air Systems' offers a rugged polyethylene ventilation line designed to accommodate a variety of applications as well as demanding jobsite conditions at an economical price point.

Fans meet OSHA 29 CFR 1910.303(a) and 1910.7 electric certification requirement.

Applications:

- Boiler Work
 - Utility Companies
 - Telecommunications
 - Petrochemical Tanks
 - Construction
 - Electrical Transformers
 - Maintenance
 - Manhole Entry
 - Tank Cleaning



CVF-8EXP

- 8" Fan, 115 VAC, 1/3 HP
 - 10ft. Power Cord
 - Built-In Sealed On/Off Switch, No Plug, user wired per NEC requirements
 - UL/CSA Approved Explosion-Proof for Class I, Groups C and D, Class II, Groups E, F, and G environments
 - Weight: 19 lbs.
 - 974 cfm, free flow
 - 786 cfm, 15ft. duct, 1 - 90° bend
 - 661 cfm, 15ft. duct, 2 - 90° bends

| Model No. | Description |
|------------------|---|
| CVF-8EXP | Contractors Explosion-Proof Axial Fan |
| CVF-8X220 | Contractors Explosion-Proof Axial Fan - 220 VAC, 50/60 Hz, ATEX approved motor |
| CVF15CANEX | Contractors Explosion-Proof Canister Fan, includes CVF-8EXP Fan, 15 ft conductive duct, conductive canister, no plug, user wired per NEC requirements |
| CVF25CANEX | Contractors Explosion-Proof Canister Fan, includes CVF-8EXP Fan, 25 ft conductive duct, conductive canister, user wired per NEC requirements |



**CVF15CANEX
WITH REMOVABLE DUCT CANISTER
WEIGHT: 35 LBS**



Conductive Saddle Vent®

Ventilation Kits for Hazardous Locations

The Conductive Saddle Vent® is now available in a low cost contractor's kit

Air Systems' Conductive Saddle Vent® System provides optimal safety for your confined space ventilation needs. One part number at one low price provides a high quality ventilation system with a variety of applications for hazardous work environments.

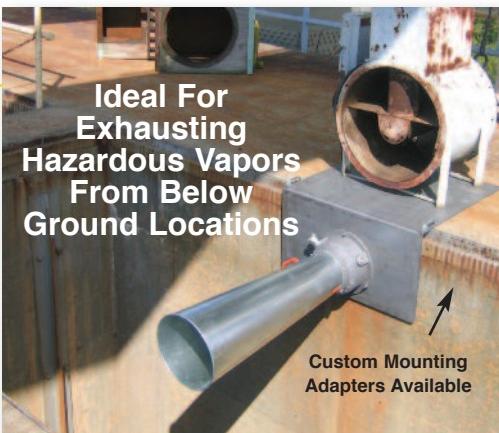


CVFEX15KIT
Kit Weight 64 Lbs

| Model No. | Description |
|------------|---|
| CVFEX15KIT | Contractors Ventilation Kit, includes CVF-8EXP Fan, 6 ft conductive duct with conductive canister and 15 ft conductive duct, conductive Saddle Vent®, conductive 90° elbow, and universal mount |
| CVFEX25KIT | Contractors Ventilation Kit, includes CVF-8EXP Fan, 6 ft conductive duct with conductive canister and 25 ft conductive duct, conductive Saddle Vent®, conductive 90° elbow, and universal mount |

Confined Space Ventilation

Hazardous Location Ventilators



↑ Air Flow ↑

Petro-Vent™ Tank Ventilator

This blower has been designed to meet ventilation requirements for underground storage tanks. A special flange adapter has been developed to thread directly on the 4-inch vent pipe found on most storage tanks. The ASI-1000, ASI-1200 and ASI-2900 bolts directly on the compatible flange.

Model ASI-1000 & ASI-1200
Order adapter ASI-12ADPT

Model ASI-2900
Order adapter ASI-29ADPT

Blower Attached to Petro-Vent™ Adapter
Compressor Hose w/ Shut-Off Valve
Petro-Vent™ Threaded To 4" Vent Pipe Flange



Pneumatic Circular Jet Fan

Designed for Hazardous Location Tank Ventilation

| Model No. | Fits API Diameter Inch | Max Free Air CFM | Inlet Pressure PSI | Inlet Flow Required CFM | Weight Lbs. |
|-----------|------------------------|------------------|--------------------|-------------------------|-------------|
| ASI-JF20 | 20 | 10,400 | 40-110 | 60-290 | 95 |
| ASI-JF24 | 24 | 16,130 | 40-110 | 76-338 | 122 |

Venturi Blowers

Often Called "Air Horns" or "Eductors"

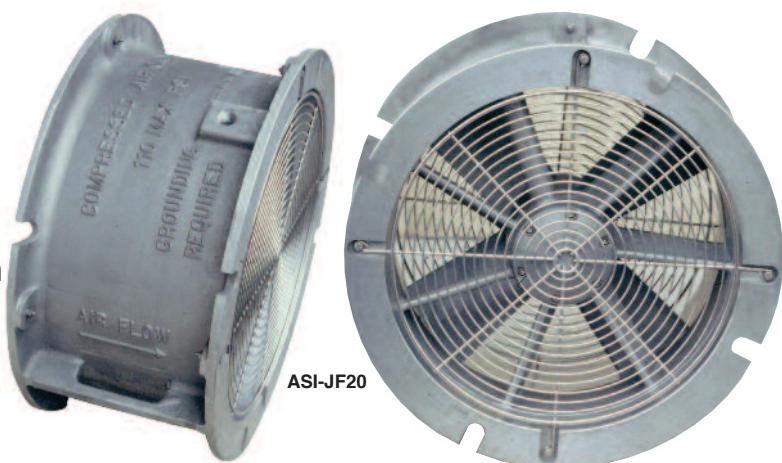
Venturi Blower Features

- Used to ventilate hazardous vapors or fumes safely
- Operates on compressed air or steam
- No moving parts
- Static grounding lug is standard
- Lightweight cast aluminum base
- Galvanized steel horn (replaceable)
- Steel Handle
- Use in high heat locations
- Operating pressures up to 140 psi
- Larger models available up to 8000 cfm capacity
- API standard base sizes



Note: Order air inlet fittings separately

| Model | 50 PSIG | | 70 PSIG | | 90 PSIG | |
|----------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|
| | Total Air Flow (CFM) | Air Consumed (CFM) | Total Air Flow (CFM) | Air Consumed (CFM) | Total Air Flow (CFM) | Air Consumed (CFM) |
| ASI-1000 | 935 | 38 | 1274 | 53 | 1422 | 64 |
| ASI-1200 | 1211 | 38 | 1429 | 53 | 1580 | 64 |
| ASI-2900 | 2770 | 76 | 3340 | 99 | 3752 | 127 |
| ASI-4100 | 3785 | 117 | 4562 | 152 | 5041 | 197 |
| Model | Overall Length | Diameter of Base | Diameter of Horn | NPT | Bolt Circle | Base Slot |
| ASI-1000 | 16.31" | 7.38" | 6.19" | 1/2" | 6.75" | 0.31" |
| ASI-1200 | 32.12" | 7.38" | 7.37" | 1/2" | 6.75" | 0.31" |
| ASI-2900 | 44.00" | 11.16" | 13.00" | 1" | 10.28" | 0.43" |
| ASI-4100 | 46.50" | 14.31" | 14.37" | 1" | 13.18" | 0.56" |
| | | | | | | Weight |
| | | | | | | 5.3 lbs |
| | | | | | | 8.1 lbs |
| | | | | | | 22.1 lbs |
| | | | | | | 32.3 lbs |



Confined Space Ventilation

Non-Hazardous Location Ventilators

Saddle Vent® Ventilation™ Technology

Gasoline Powered Ventilation Kit
Model SVB-G8CUP



Did You KNOW?

Air Systems' electric blowers and fans have been tested by to meet OSHA 29 CFR 1910.303(a) and 1910.7 for electrical certification.

Single Speed Electric Blower

- 3/4 HP electric motor, TEFC, 115 VAC
- 10.8 amp, 60 Hz
- GFI power cord
- Aluminum non-sparking blower wheel
- Polyethylene fan housing
- Powder coat tubular steel frame with dual handles
- Molded polyethylene safety guards
- 8" intake and exhaust flange
- Inlet filters available
- Weight: 53 lbs.
- Dimensions: 23" L x 12" W x 19"H
- 1570 cfm, free air delivery
- 1047 cfm, 25ft. duct, 1 - 90° bend



SVB-E8EC



SVB-E8-2



Economy Electric Blower

- 1/2 HP electric motor, 9 amps, TEFC, 60 Hz, 115 VAC
- GFI power cord
- Steel blower wheel
- Polyethylene fan housing
- Powder coat steel frame
- Molded polyethylene safety guards
- 8" intake and exhaust flange
- Weight: 37 lbs.
- Dimensions: 17" L x 17" W x 18" H
- 1390 cfm, free air delivery
- 973 cfm, 25ft. duct, 1 - 90° bend

2-Speed Electric Blower

- 3/4 HP, 2-speed electric motor, TEFC
- 115 VAC, 11.5 amp, 60 Hz
- GFI power cord
- Aluminum non-sparking blower wheel
- Polyethylene fan housing
- Powder coat tubular steel frame with dual handles
- Molded polyethylene safety guards
- 8" intake and exhaust flange
- Weight: 58 lbs.
- Dimensions: 23" L x 12" W x 19" H
- 750 cfm low/1570 cfm high, free air delivery
- 490 cfm low/1047 cfm high, 25ft. duct, 1 - 90° Bend

Inlet Filters Available for All Models. See page 57 for details

Did You KNOW?

International blowers available.
Contact Customer Service for
details and specifications.

Centrifugal Blowers

Heavy Duty, Industrial Grade,
Ergonomically Designed



5 ft. Exhaust Hose for Gas & Propane Blowers

Gasoline Powered Blower

- 127 cc Briggs & Stratton motor (Approx. 4 HP)
- Meets CAL/OSHA emission standards
- 5ft. remote flexible steel exhaust hose with custom gas-tight muffler to prevent intake of CO exhaust
- Polyethylene fan housing
- Powder coat tubular steel frame with dual handles
- Molded polyethylene safety guards
- 8" intake and exhaust flange
- Weight: 53 lbs.
- Dimensions: 23" L x 12" W x 19" H
- 1500 cfm min/3000 cfm max free air delivery
- 1040 cfm min/1725 cfm max, 25ft. duct, 1 - 90° bend

Honda Engine - Model SVB-G8-H

- 118 cc Honda engine option

Propane Engine - Model SVB-G8P

- Includes propane conversion kit, Briggs & Stratton engine and propane tank

Confined Space Ventilation

Non-Hazardous Location Ventilators

Industrial Grade Blower Kits for Non-Hazardous Locations



Kits Include:

- 1) Centrifugal Blower of your choice
- 2) Industrial Saddle Vent® - SV-189
- 3) 90° elbow for Saddle Vent® - SV-90
- 4) 15 ft. duct - SVH-15
- 5) 6 ft. duct - SVH-6
- 6) Duct canister (holds 50ft. of duct) - SVH-DC25
- 7) Universal mount - SV-UM

| Model No. | Description |
|------------|--|
| SVB-E8CUP | Economy 8" Electric Blower Kit, includes SVB-E8EC blower and SV-CUP Saddle Vent® Ventilation Kit |
| SVB-E8SCUP | Standard 8" Electric Blower Kit, includes SVB-E8 blower and SV-CUP Saddle Vent® Ventilation Kit |
| SVB-E82CUP | 2-Speed 8" Electric Blower Kit, includes SVB-E8-2 blower and SV-CUP Saddle Vent® Ventilation Kit |
| SVB-G8CUP | Gasoline 8" Blower Kit, includes SVB-G8 blower and SV-CUP Saddle Vent® Ventilation Kit |
| SV-CUP | Saddle Vent® Ventilation Kit - no blower |

In-Line Steel Axial Fans for Non-Hazardous Locations

The 10" in-line axial fan has been designed to be used as a stand alone fan or attached in series to run long lengths of ventilation duct. Intake and exhaust flanges allow for either 8" or 10" duct to be attached to either end of the blower to achieve positive or negative ventilation.

The blower is light weight and weighs less than thirty pounds.

Fan meets OSHA 29 CFR 1910.303(a) and 1910.7 electrical certification requirement

Attach Fan in Series to Run Long Sections of Duct



10" In-Line Electric Fan

- Standard Electric Motor: 1/3 HP, continuous duty, 115 VAC, 1-phase, 60 Hz
- Power cord: 10ft. SOOW cable with installed strain release
- Frame: All steel, powder coat red with rubber base feet
- Inlet/Exhaust flange made of molded polyethylene
- 72 dbA @ 3ft.
- Dimensions: 16" L x 16.75" H x 12.5" W
- Weight: 28 lbs.
- 1390 cfm, free air delivery

| Model No. | Description |
|------------|---|
| SVF-10E | Standard 10" Electric Fan |
| SVF-10ECUP | Standard 10" Electric Fan Kit, includes SVF-10E fan and SV-CUP Saddle Vent® Ventilation Kit |

Saddle Vent®
Ventilation Kit for
Non-Hazardous
Locations



Kit Includes:

- 1) In-line Axial Fan
- 2) Industrial Saddle Vent® - SV-189
- 3) 90° elbow for Saddle Vent® - SV-90
- 4) 15 ft. duct - SVH-15
- 5) 6 ft. duct - SVH-6
- 6) Duct canister (holds 50ft. of duct) - SVH-DC25
- 7) Universal mount - SV-UM

Confined Space Ventilation

Non-Hazardous Location Ventilators

Saddle Vent™ Ventilation System



Fan meets OSHA 29 CFR 1910.303(a) and 1910.7 electrical certification requirement

Steel Axial Fans

Air Systems manufactures a combination ventilation fan and duct storage unit to meet the most demanding customer needs. Our rugged polyethylene duct canister is securely attached to one of our industrial lightweight steel fans to make an ideal ventilator for the customer who wants a one piece ventilation package.



WEIGHT: 39 LBS. w/25' DUCT
35 LBS. w/15' DUCT

| Model No. | Description |
|------------|---|
| SVF-8AC | AC axial fan only, 1395 cfm free air |
| SVF-8DC | DC axial fan only, 1170 cfm free air |
| SVF-6ACAN | AC axial canister fan with 6 ft. duct installed - 890 cfm output |
| SVF-15ACAN | AC axial canister fan with 15 ft. duct installed - 870 cfm output |
| SVF-25ACAN | AC axial canister fan with 25 ft. duct installed - 858 cfm output |
| SVF-6DCAN | DC axial canister fan with 6 ft. duct installed - 825 cfm output |
| SVF-15DCAN | DC axial canister fan with 15 ft. duct installed - 815 cfm output |
| SVF-25DCAN | DC axial canister fan with 25 ft. duct installed - 796 cfm output |

AC Version - SVF-8AC

- 1/3 HP - 115 VAC
- 8" diameter outlet
- 1395 cfm, free air delivery
- 72 dbA @ 3 ft.
- Weight: 22 lbs.



DC Version - SVF-8DC

- 12-volt DC, 1/4 HP, 19 amps
- 8" diameter outlet
- 1170 cfm, free air delivery
- 10' power cord with battery clips
- In-line 20 amp fuse holder
- 72 dbA @ 3 ft.
- Weight 22 lbs.



Saddle Vent®
Ventilation Kits for
Non-Hazardous
Locations



SVF-8ACUP

Saddle Vent™ Ventilation Kit



Kit Includes:

- 1) Axial Fan of your choice
- 2) Industrial Saddle Vent®- SV-189
- 3) 90° elbow for Saddle Vent®- SV-90
- 4) 15 ft. duct - SVH-15
- 5) 6 ft. duct - SVH-6
- 6) Duct canister (holds 50ft. of duct) - SVH-DC25
- 7) Universal mount - SV-UM

| Model No. | Description |
|-----------|---|
| SVF-8ACUP | Economy 8" Electric Fan Kit, includes SVF-8AC fan and SV-CUP Saddle Vent® Ventilation Kit |
| SVF-8DCUP | Economy 8" Electric Fan Kit, includes SVF-8DC fan and SV-CUP Saddle Vent® Ventilation Kit |

Confined Space Ventilation

Non-Hazardous Location Ventilators

Contractor Grade Axial Fans

The Contractor's series of ventilation products is the latest addition to Air Systems' ventilation product group. Known for product quality and performance, Air Systems offers a rugged portable polyethylene fan line designed to accommodate a variety of applications as well as demanding job site conditions at an economical price.

Fan meets OSHA 29 CFR 1910.303(a) and 1910.7 electrical certification requirement

AC Ventilation Fan

CVF-8AC

- 1/3 HP, 8" Fan, 115 VAC, 60Hz
- 10 ft. cord
- Weight: 15 lbs.
- 974 cfm, free flow
- 786 cfm, 15ft. duct, 1 - 90° bend
- 661 cfm, 15ft. duct, 2 - 90° bends

CVF-15ACAN
WEIGHT: 32 LBS.



DC Ventilation Fan

CVF-8DC

- 1/4 HP, 12 VDC, 19 amps
- 20 amp fuse holder
- 10 ft. cord with Battery Clips
- 8" Fan
- Optional Battery Pack Available
- Weight: 15 lbs.
- 848 cfm, free flow
- 702 cfm, 15ft. duct, 1 - 90° bend
- 590 cfm, 15ft. duct, 2 - 90° bends



Applications:

- Boiler Work
- Manhole Entry
- Utility Companies
- Telecommunications
- Construction
- Electrical Transformer Repair
- Maintenance
- Tank Cleaning

Contractor Fans for Non-Hazardous Locations

| Model No. | Description |
|------------|---|
| CVF-8AC | Contractor Fan Only Contractor Grade AC Axial Fan, 115VAC, CSA/US Approved |
| CVF-8DC | Contractor Grade DC Axial Fan, with Battery Clips |
| CVF-8DCSB | Contractor Grade DC Axial Fan, with SB® Battery Connector |
| CVF-15ACAN | Contractor Canister Fans Contractor Canister Fan, includes CVF-8AC Fan with 15 ft duct canister |
| CVF-25ACAN | Contractor Canister Fan, includes CVF-8AC Fan with 25 ft duct canister |
| CVF-15DCAN | Contractor Canister Fan, includes CVF-8DC Fan with 15 ft duct canister, supplied with Battery Clips |
| CVF-25DCAN | Contractor Canister Fan, includes CVF-8DC Fan with 25 ft duct canister, supplied with Battery Clips |
| CVF-CAN15 | Contractor Duct Canister Only Duct Canister with 15 ft duct fits CVF-8AC & CVF-8DC Fans Only |
| CVF-CAN25 | Duct Canister with 25 ft duct fits CVF-8AC & CVF-8DC Fans Only |

Saddle Vent® Ventilation Kits



Model No.

| Model No. | Description |
|------------|---|
| CVF8A15KIT | Contractors Ventilation Kit, includes CVF-8AC Fan, 6 ft duct with canister and 15 ft duct, Saddle Vent®, 90° elbow, and universal mount |
| CVF8D15KIT | Contractors Ventilation Kit, includes CVF-8DC Fan, 6 ft duct with canister and 15 ft duct, Saddle Vent®, 90° elbow, and universal mount |
| CVF8A25KIT | Contractors Ventilation Kit, includes CVF-8AC Fan, 6 ft duct with canister and 25 ft duct, Saddle Vent®, 90° elbow, and universal mount |
| CVF8D25KIT | Contractors Ventilation Kit, includes CVF-8DC Fan, 6 ft duct with canister and 25 ft duct, Saddle Vent®, 90° elbow, and universal mount |

Confined Space Ventilation

Special Application Ventilators / Carts



Environmentally
Friendly Products

Emergency Response Ventilation Kit for Non-Hazardous Locations

Ever notice emergencies happen when you least expect it?

During storms, inside difficult to access areas in the dark, or any emergency ventilation requirement, don't be caught without proper lighting or electrical service.

Completely portable, the Emergency Response Ventilation Kit provides 2 hours of simultaneous light and fan run time. The Kit includes the Mini-Cube™ area light with a water and dust tight 800 lumen LED lamphead, an 8 ft. retractable aluminum pole supporting the multi-directional head and collapsible legs providing a 30" support base. The 33 amp AGM lead battery pack has a built-in charger and voltage meter.

Also included is the Contractor Canister Fan, providing 815 cfm free air flow with 15 ft ducting.

**One part number... one price...
buys peace of mind from the unexpected.**



ERVK-15DC
Mini-Cube™ provides a
12 Volt Power Port for
operating 12-volt
devices like our
ergonomically designed
800 lumen pistol grip
hand held light

| Model No. | Description |
|-----------|--|
| ERVK-15DC | Emergency Response Ventilation Kit. Includes Mini-Cube™, Model AL1MCBPC and Contractors Canister Fan, Model CVF15DCNBP |
| ALHL25 | Magnetic Hand-Held Single Cube LED Light LED Hand Light, 800 Lumens, 25ft. cord with power port male adapter |

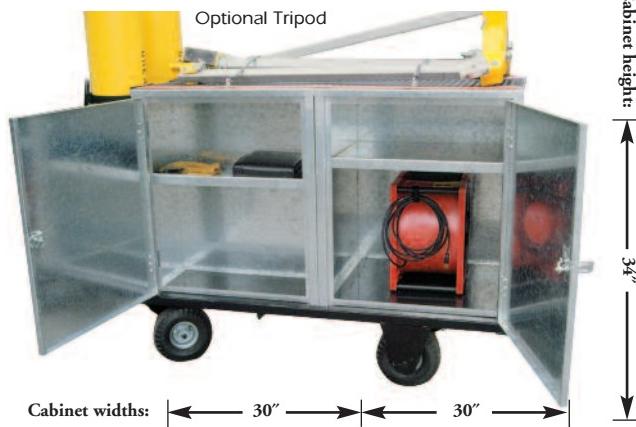
Confined Space Entry Carts



CSC-3072P CART
WITH PNEUMATIC TIRES

**Model CSC-3072
Standard Cart
or Customize your own cart!**

2 each 14" deep cabinets
1 each 28" deep cabinet



Cabinet height:

34"

| Model No. | Description |
|---------------------------------------|--|
| CSC-3072 | Standard confined space cart with 10" semi-pneumatic tires. Order cylinders and high pressure hardware, and tripod separately (tripod sold through local distributors) |
| CSC-3072P CBA2-346NB CBA2-347NB | Standard confined space cart with 10" pneumatic tires 2 cylinder breathing air assembly, no cylinders - 2400 psi 2 cylinder breathing air assembly, no cylinders - 4500 psi 300 cf air cylinder, 2400 psi 444 cf air cylinder, 4500 psi 472 cf air cylinder, 5000 psi |
| AC-300 | |
| AC-444 | |
| AC-472 | |

Specifications

- Steel cart rated for 1200 lbs. with 10" semi-pneumatic tires, optional pneumatic tires
- 3-cabinet design, galvanized steel, with shelving; 2 each 14" deep, 1 each, 28" deep
- Nylon bottle straps and steel safety chains for cylinder security
- Combination "T" handle with "Pintle Hitch"
- Articulating (steerable) front end
- Top rubber mat with tie-downs for storing retrieval tripod
- Order cylinders, regulator/manifold assembly, separately
- Wheel chocks available
- Dimensions 30" W x 72" L x 48" H Weight: 515 lbs.

Customizing Suggestions

Cart only (no cabinet), add blower, add extra air cylinders, make cart wider or longer



The Saddle Vent® for Special Applications

Saddlator™

Pneumatic Powered Saddle Vent® Blower

The Saddlator™ provides positive or negative pressure ventilation to supplement confined space entry operations in large work areas or tanks and is ideal for hazardous environments.

Specifications

- Conductive Saddle Vent® with Venturi blower installed
- 90° bolt-on conductive elbow, SV90-29, supplied
- Air operated with no moving parts
- 1/2" Industrial Interchange plug
- Static ground lug installed
- Delivers 2000 - 3000 cfm on pressures from 50-100psi

| Model No. | Description |
|------------|--|
| SV189-29 | Saddlator™ w/ elbow, positive pressure |
| SV189-29-N | Saddlator™ w/ elbow, negative pressure |
| SV90-29 | 90° bolt-on elbow to fit Saddlator™ |
| SV189T-29 | Tank Saddlator™ |
| H-50-5 | 1/2" compressor connect hose -50 ft. |
| H-50-12 | 3/4" compressor connect hose -50 ft. |



SV189-29

Tank Saddle Vent®

The Tank Saddle Vent® is specially designed to fit 18"W x 20"L oval shipboard hatch openings. The tank model is installed in the hatch entry area with complete entry and egress access to the ladder. The required metal guard is left in place without interference from the Tank Saddle Vent®. The Tank Saddle Vent® also fits all small round openings, 20" and smaller.



SV-189T

| Model No. | Description |
|-----------|------------------------------------|
| SV189T | Tank Saddle Vent® |
| SV-90T | 90° elbow to fit Tank Saddle Vent® |

Special Application Blowers

Large Centrifugal Blowers

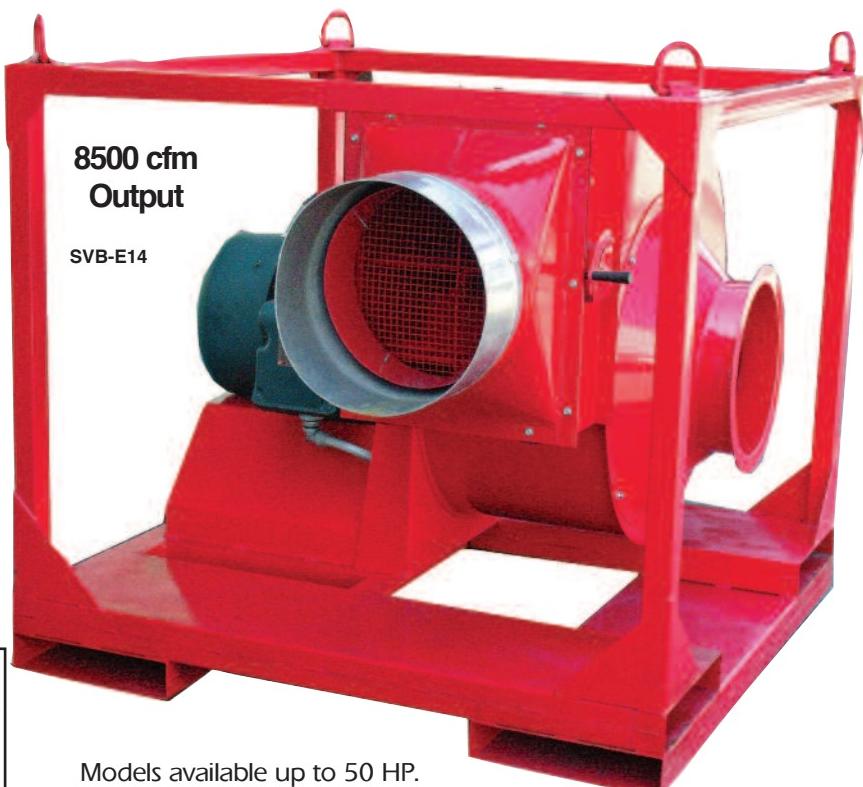
Air Systems can design a custom blower to meet your most demanding requirements. Our blowers are used by steel mills, shipbuilding companies and power generating stations. Select from a wide variety and style of inlet and outlet flange sizes. The blower at right is a 15 HP electric with a 14" inlet and outlet flange set on a 4-way steel fork lift skid and designed to deliver high static pressure and high cfm output for maximum lengths of ducting.

Specifications:

- 8500 cfm free flow
- 13.9" W.G. static pressure @ 4200 cfm output
- TEFC 15HP motor
- Sealed NEMA 4 on/off switch box
- 230/460 VAC, 3-phase motor
- User wired per NEC requirements
- 14" intake and exhaust flange
- Welded steel safety guards on inlet and exhaust
- Adjustable flow control gate
- Forklift guide on all four sides plus sling hooks
- Custom variations available



Custom Small Portable
6" Pressure Blower
Designed for
Hazardous Location
Ventilation



Models available up to 50 HP.

Confined Space Ventilation

Accessories

Inlet Filter Assembly for SVB Series Blowers

The inlet filter is designed for Air Systems' SVB series of portable industrial blowers. The unit filters inlet ambient air so workers in a confined space are not exposed to ambient dust. The system controls dust and particulates from entering a confined space where industrial coatings are being applied. The filter also reduces the potential for dust ignition in a confined space when used with an explosion-proof or intrinsically safe blower. Filters are available with 5 micron or 99.97% HEPA rating.

| Model No. | Description |
|-----------|---|
| SVB-IFH9 | Inlet filter holder, no filter, order filter choice below |
| SVB-IF9ST | Inlet filter, standard, 99% efficient at 5 micron, <1% flow loss with 25 ft duct |
| SVB-IF9HE | Inlet filter, HEPA 99.97% efficient at 0.3 micron, 40% flow reduction with 25 ft duct |

See pages 47 & 51 for SVB blowers

Filter Holder



SVB-IFH9

Standard Filter



SVB-IF9ST

HEPA Filter



SVB-IF9HE



Blower sold separately



FH24-8-14
Closed

Ventilation Accessories

In-line HEPA Filter Holder

- Attaches before or after blower for positive or negative filtration
- Pre-filter for dusts or odors
- 8" inlet and exhaust flange
- Galvanized steel
- Optional stainless steel or aluminum frame
- Holds a 24" x 24" x 11.5" HEPA filter plus a 24" x 24" x 2" pleated pre-filter



FH24-8-14
Open



In-line Pleated Filter Holder

Specifications

- Holds a 24" x 24" x 2" pleated filter
- 8" duct flange on one side
- Allows user to filter intake or discharge air
- Galvanized steel
- Optional stainless steel or aluminum frame
- Custom sizes and designs available

| Model No. | Description |
|------------|---|
| FH24-8 | In-line Filter Holder holds 24" x 24" x 2" pre-filter |
| FH24-8-14 | In-line Filter Holder holds 24" x 24" x 11.5" HEPA and 2"pre-filter |
| ASI-242C | Pleated Carbon Odor Removal Filter, 24" x 24" x 2", case of 6 |
| FLT004C | Pleated dust Filter, 24" x 24" x 2", case of 12 |
| PFE-2412HF | HEPA Filter, 24" x 24" x 11.5" |

Electric Ventilation Heaters



27" L X 16" H X 15.5" W
40 LBS.

SVF-7KW-8

Specifications

- Heaters operate with blower or fan only
- 8" inlet and exhaust flange
- Aluminum frame with steel control box
- Automatic start with blower running
- Built-in safety pressure switch
- Automatic thermal shutdown at 170°F
- 144°F output at exhaust, 112°F with 15' duct
- Order 3 ft heater connect duct, Model no SVH-3

SVF-15KW-8



32" L X 27" H X 37.5" W
95 LBS.

All Electric heaters are available with optional duct size flanges

| Model No. | Description |
|------------|---|
| SVF-7KW-8 | Electric 8" ventilation heater, 7kw, 230/1, 28 amps, 23,900 BTU - 30 amp plug |
| SVF-10KW-6 | Electric 6" ventilation heater, 10kw, 440/3, 15 amps, 34,145 BTU - user wired |
| SVF-15KW-8 | Electric 8" ventilation heater, 15kw, 440/3, 26 amp, 51,216 BTU - user wired |

Vent Flow™ Alarm

**Designed to Meet Confined Space
Ventilation Flow Loss Alarm Requirements**



SVF-8ALM In Use

Specifications

- Meets Canadian alarm requirements
- Attaches inline to any 8" blower duct. (Optional larger and smaller duct sizes available upon request)
- Operates on two standard 9-volt batteries
- Audible alarm (92dBa) and visual red light activate with approximately 50% flow loss in the duct
- Alarms deactivate when normal flow is re-established
- Galvanized tubular steel housing
- Weight: 7 lbs.
- Overall length, 13"
- No AC power required

For Use In Non-Hazardous Locations



SVF-8ALM



Standard Ducting

- Vinyl polyester ventilation air duct hose
- 8" diameter with external wear strips – custom sizes available on request
- Internal steel reinforced wire hoop – 5" pitch
- 6" long attachment cuff, 8 3/8" diameter, with adjustable belt straps on both hose ends
- Maximum temperature rating 180°F



Conductive Ducting With Ground Wires
Attached to Each End of Wire Helix



8" Duct to Duct Connector

Galvanized Steel or
Polyethylene Supplied

8" Conductive
Duct to Duct Connector



SVH-88CND

| Model No. | Description |
|------------|---|
| SVH-3 | Standard Duct |
| SVH-6 | 8" Diameter - 3 ft. Standard Duct - Yellow |
| SVH-15 | 8" Diameter - 6 ft. Standard Duct - Yellow |
| SVH-25 | 8" Diameter - 15 ft. Standard Duct - Yellow |
| SVH-25 | 8" Diameter - 25 ft. Standard Duct - Yellow |
| SVH-CND86 | Conductive Duct |
| SVH-CND815 | 8" Diameter - 6 ft. Conductive Duct - Black |
| SVH-CND825 | 8" Diameter - 15 ft. Conductive Duct - Black |
| SVH-88C | 8" Diameter - 25 ft. Conductive Duct - Black |
| SVH-88CND | Duct to Duct Connector |
| | 8" Duct to Duct Connector |
| | 8" Conductive Duct to Duct Connector w/ Ground Lugs |

Custom Sizes Available Up To 36" Diameter



Duct Carrier

- Holds 50 ft of 8" diameter duct
- Snap-lock lid
- Large carry handle
- Polyethylene construction
- Keeps duct from getting ripped
- Solves duct storage problem

SVH-DC25

Custom Duct Transitions

Enlarging and Reducing Adapters are Available
to Accommodate Any Transition Size - Contact
Customer Service for Ordering Information



DC Powered Area Lighting

The Mini-Cube™



The Mini-Cube™ Flagger Light

The Mini-Cube™ is a Lightweight, Highly Portable Light Source with Extended Runtime to Light Up The Job Site.

Designed to Meet National and State Flagger Illumination Regulations.
Complies with NCHRP Report 476 Section 2.5.2 (Illumination, Visibility, and Temporary Lighting) and the MUTCD Section 6E.05



Use your 12-Volt Adapter Cable to Charge and/or Run Your DC Powered Electrical Devices



| Model No. | Description |
|-----------|---|
| AL1MCBP | Mini-Cube™ LED Light, 800 Lumens, Includes Battery Pack/Charger |
| AL2MCBP | Mini-Cube™ Dual LED Light, 1600 Lumens, Includes Battery Pack/Charger |
| ALHL25 | Magnetic Hand-Held Single Cube LED Light LED Hand Light, 25ft. cord with power port male adapter |

The Mini-Cube™ Portable Area Lighting

The Mini-Cube™ was developed as a lightweight, high output Portable Area Lighting System. The internal 33 amp AGM battery pack provides over 30 hours of runtime. The water and dust tight 800 Lumen LED head is multi-directional on an 8 ft. retractable aluminum pole. The Mini-Cube™ is available with a single or dual 800 Lumen LED lamphead.

Operational Features

- Full 8 ft. light elevation
- Collapsible aluminum extension mast with locking thumb screws and retractable cable - 24" collapsed height
- Single cube, 10 watts, 800 lumens per cube
- Dual cube, 20 watts, 1600 total lumens
- Rated 50,000 hours service on LED lamphead
- Push-to-test volt meter built in to front panel
- 12-volt power port for quick charge from an external battery source or voltage out to run 12-volt devices
- Adjustable directional lamphead(s)
- Weight: 35 lbs.

Internal Battery

- 12 VDC sealed 33amp AGM lead acid battery
- Deep cycle, with built-in 115 VAC charger system and cord
- Run time for Single LED Mini-Cube™ with full charge, 32+ hours
- Run time for Dual LED Mini-Cube™ with full charge, 16+ hours
- Battery pack rated for 500+ charge cycles
- Approved for continuous charging when light not in use.
If fully depleted, it may require up to 24 hours to fully recharge
- One year replacement warranty on battery pack and charger

Mini-Cube™ Applications

- Flagger Lighting
- Emergency Response Lighting
- Area Lighting
- Small Enough for Use in Bucket Trucks
- Construction
- Maintenance

Hand Held LED Light



Power Port Connection

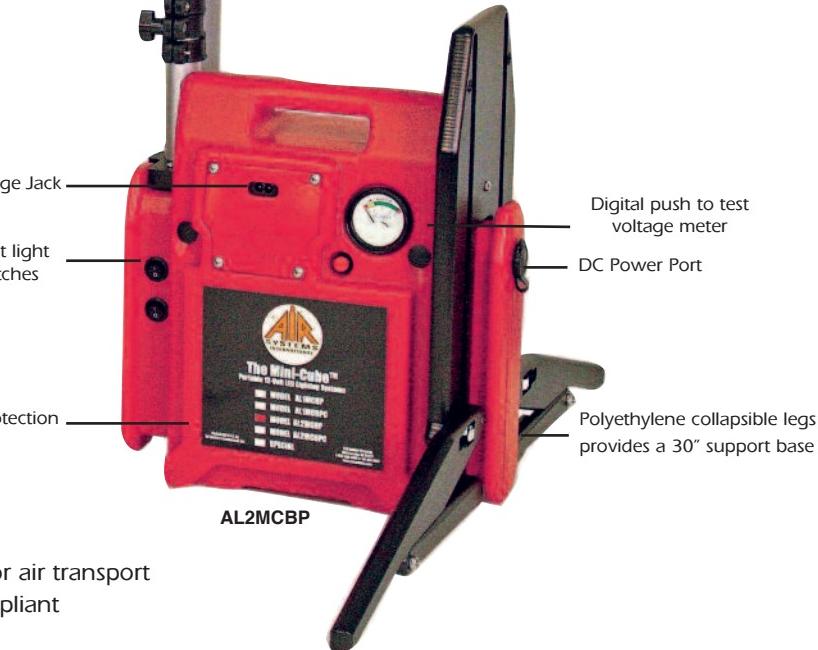


Approvals

- Battery FAA, DOT, CAB, IA, and TA approved for air transport
- RoHs (Restriction of Hazardous Substances) compliant



Mini-Cube™ Features



DC Powered Area Lighting

The Air-Light™ System

The Air-Light™ System (A.L.S.)

DC Powered Portable LED Light Series

The Air-Light™ Systems have been designed to provide high power lighting for indoor and the most adverse outdoor conditions.

The compact portable design comes fully assembled for use and deploys rapidly in under 30 seconds without the need for component assembly. It's stable platform insures reliable lighting on rugged terrain and high wind conditions.

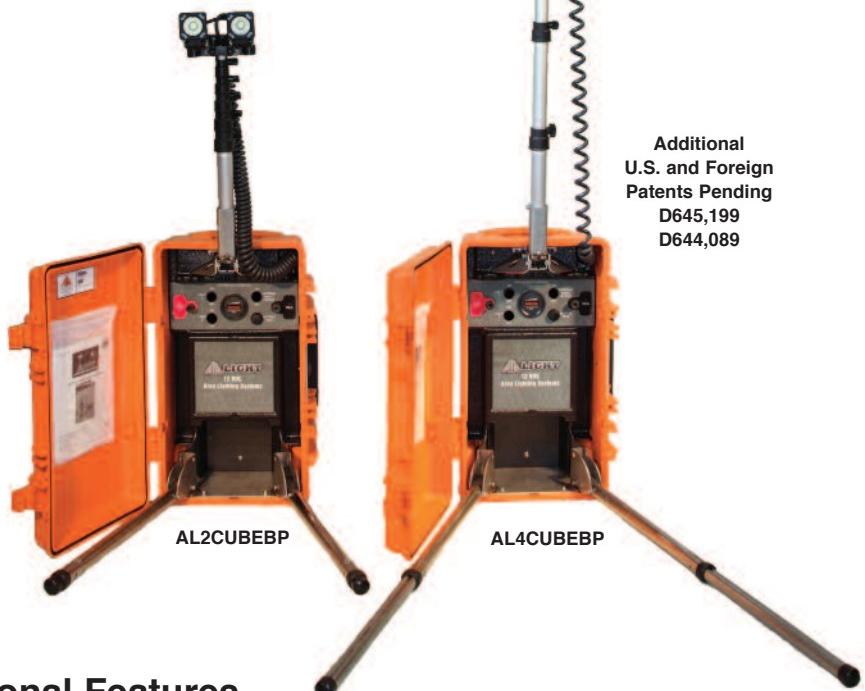
With it's high capacity 22 amp/hr internal battery and the ability to switch over to AC power or DC power from a response vehicle, the Air-Light™ will see you through until your job is complete.



Additional
U.S. and Foreign
Patents Pending
D645,199
D644,089

Air-Light™ Applications

- Emergency Response Lighting
- Area Lighting
- Construction
- Maintenance
- Crime Scene Investigation



Operational Features

- Power supply can be switched from internal battery to external 12 VDC power or 110-240 VAC 50/60Hz power without interrupting light operation
- Internal battery can be charged from external 12 VDC or 110-240 VAC 50/60Hz power sources
- Power port socket for charging of internal battery or powering external accessories Such as cell phones, laptops, handheld lights or any device utilizing 12 VDC power
- Operate/charge with clamp style jumper cables
- Unit delivered fully assembled
- Unit deploys/stows rapidly without the use of tools and folds to fit within the integral storage case
- Operational in sustained 35 mph full frontal winds, 65+ mph rear winds
- Mast extends from a range of 30" - 87" above ground

DC Powered Area Lighting

The Air-Light™ System



Power Source Features

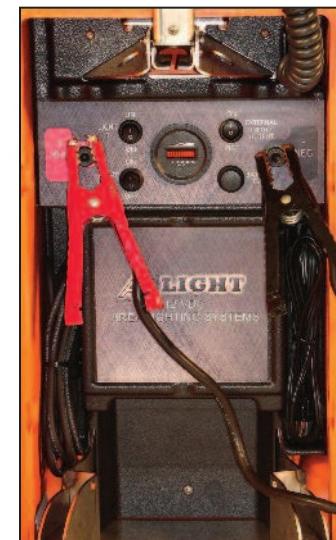
Internal Battery and Charger

- 12 VDC, 22amp/hr, deep cycle sealed lead acid, AGM battery
- Maintenance-free, non-spillable, and operates in any position
- Safely stored/operated at -40°F to 140°F, (-40°C to 60°C)
- 6 hour minimum recharge time. 12 hours or overnight to condition the battery from full discharge
- Rated for 500+ discharge cycles, 3 -5 year service life
- One year replacement warranty on battery pack and charger
- 3 amp Internal charger rated 50/60 hz, 110-240 VAC
- Supplied with charge cord and power port cable



DC to DC power cord and 115 VAC charger cables provided

12 volt DC power port can operate / charge accessory equipment like cell phones or laptops



Battery can be charged from a direct connection from a vehicle's battery system via jumper cables to battery posts located on the standard battery pack

DC Powered Area Lighting

The Air-Light™ System

LED Light Specifications

- 50,000 + hours LED service life
- Lamp assembly auto shut-off at 9VDC
- Color temperature 5,000° Kelvin (pure white)
- Flood pattern light beam diffusion (Spot and EURO beam patterns available)
- Water proof, dust proof, IP68 rating
- Independent directional adjustment of each lamp assembly
- 87" Full Extension - aluminum mast with locking thumb screws

Note: Infrared LED cube lights available in 850nm and 940nm

**Specifications and Features
Apply to ALL A.L.S. Series
Light Products**



Dual Cube Specifications:

- 12 VDC, 1.5amps, 20 watts
- 1600 Lumens (800 lumens per cube)
- Anodized aluminum with polycarbonate lens
- Operating temperature, -40°C to 85°C (-40°F to 140°F)
- Full Charge Run Time: 10+ hours
- IR Models, Full Charge Run Time: 30+ hours



Quad Cube Specifications:

- 12 VDC, 3amps, 40 watts
- 3200 Lumens (800 Lumen per cube)
- Anodized aluminum w/ polycarbonate lens
- Operating temperature, -40°C to 85°C (-40°F to 140°F)
- Full Charge Run Time: 5+ hours
- IR Models, Full Charge Run Time: 15+ hours

Control Panel

- NEMA 3 protection
- Independent light control switches
- Digital push to test voltage meter
- External color coded POS (+) and NEG (-) connection posts
- Dual ended power port cable for connection to vehicle cigarette lighter or auxiliary power outlet supplied
- 110 VAC US cord standard, (international cord sets available)



Interior Frame

- Unit collapses for storage
- Integral stainless steel unitized structural frame assembly and battery box
- Drop tested from 1 meter, (all 6 sides, all 4 corners) with no internal, structural, or electrical failures
- Stainless steel telescoping stabilizer leg assemblies
- Stabilizer legs fully deployed to create a stable 36" x 32" 3-point platform
- Stainless steel support legs unfold with the push of a spring release button
- Support legs extend to either 19" or 32" length
- Mast extends from a range of 30" - 87" above ground
- Dimensions:
 - Retracted 22.5" H x 12.7" W x 9.75" D
 - Deployed 87" H x 32" W x 36" D
- Weight: 48 lbs.

Approvals / Conformances

- Declaration of Conformity CE council directive 2006/95/EC
- Specifications Declared : Essential Health and Safety Requirements of Annex 1 of the Low Voltage Directive
- RoHS (Restriction of Hazardous Substances) compliant
- CE registered lights
- Battery FAA, DOT, CAB, IA, and TA approved for air transport

DC Powered Area Lighting

The Air-Light™ System

The Air-Light™ System

Choose a light assembly to meet your application



| Model No. | Description |
|------------|---|
| AL2CUBEWP | LED Cube Light Models Air-Light™ Dual Cube LED Light Assembly - Includes internal battery pack and 3 amp battery charger and cables |
| AL4CUBEWP | Air-Light™ Quad Cube LED Light Assembly - Includes internal battery pack and 3 amp battery charger and cables |
| AL2C-IR850 | Night Vision Models Air-Light™ Dual Cube Light Assembly - Includes internal battery pack and 3 amp battery charger, 850 nm output light spectrum for night vision |
| AL2C-IR940 | Air-Light™ Dual Cube Light Assembly - Includes internal battery pack and 3 amp battery charger, 940 nm output light spectrum for night vision |
| AL4C-IR850 | Air-Light™ Quad Cube Light Assembly - Includes internal battery pack and 3 amp battery charger, 850 nm output light spectrum for night vision |
| AL4C-IR940 | Air-Light™ Quad Cube Light Assembly - Includes internal battery pack and 3 amp battery charger, 940 nm output light spectrum for night vision |
| ALHL25 | Magnetic Hand-held Single Cube LED Light LED Hand Light, 25ft. cord with power port male adapter |

Additional LED cubes can be added to your assembly as needed. Contact Customer Service.

Accessories / Kits

| Model No. | Description |
|---|--|
| ALHL25 | Magnetic Hand-Held Single Cube LED Light LED Hand Light, 800 lumen, 25ft. cord with power port male adapter |
| ERVK-15DC | Emergency Response Ventilation Kit AL1MCBP Mini-Cube™ LED light and CVF-15DCAN fan with SB® connector |
| LP-PC-DE C7-PC-USA C7-PC-EUR C7-PC-UK C7-PC-AUS | Charging Cord Sets Dual end power port connector cable, 8ft. 7ft. DC charge cord to AC - United States 7ft. DC charge cord to AC - Europe 7ft. DC charge cord to AC - United Kingdom 7ft. DC charge cord to AC - Australia |



Environmentally
Friendly Products

Emergency Response Ventilation Kit



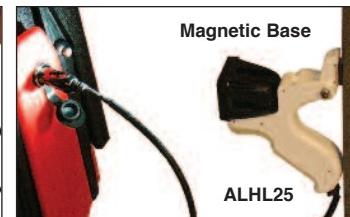
Emergency response ventilation and high output DC lighting for a full 2 hour simultaneous fan and light run time.
See details on page 55

Hand Held LED Light

Specifications:

- 12 VDC, .75amps, 10 watts, 800 Lumens
- Anodized aluminum housing with polycarbonate lens
- Operating temperature, -40°C to 85°C; -40°F to 140°F
- 25 ft power cord with male power port connector
- Ergonomically designed polyethylene pistol grip
- Magnet rated @ 30 lbs. with adjustable base

Power Port Connection



Charging cord sets supplied with all Air-Light™ Models



115 VAC
Power Cable
C7-PC-USA

Environmental Control

Large Portable Fume Extractor

Fume-Air™ 750

Source Capture to Meet OSHA Standards



Arm shipped completely assembled and ready to bolt on main extractor cabinet



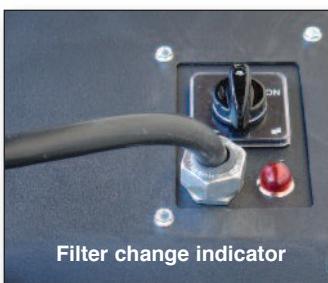
The Fume-Air™ 750 HEPA filtered fume extractor provides 750 cfm flow through a 13" hood and is ideal for welding and soldering applications where large flow volume is required. With 270 degree movement and 10 foot arm, it is easy to position the hood next to the workpiece.

The pleated pre-filter and HEPA filter remove 99.97% at 0.3 micron and meets the OSHA Permissible Exposure Limit (PEL) for hexavalent chromium of 5 $\mu\text{g}/\text{m}^3$.

Specifications

- 115 VAC motor, 12.5 amps
- 13 inch fume capture hood with adjustable flow damper - optional hood light
- HEPA Filter, 99.97%, UL-586 approved, DOP Tested 1000 cfm flow rate
- 6 inch diameter, 10 ft. ducted arm with 270 degree movement
- 750 cfm flow with 10 ft. arm
- Filter change indicator
- Steel Cabinet
- 24" x 24" x 1" Pleated pre-filter holder
- Lift-up filter door for easy access filter change
- 5" Heavy Duty Casters
- Weight: 307 lbs. with 10ft. arm
- Size: 27" W X 40" D X 32.5" H

Lift up filter door for easy access filter change



| Model No. | Description |
|----------------|--|
| PFE-750-8 | Portable Extractor, Fume-Air™ 750 complete with 10 ft arm assembly, and 99.97% HEPA filter |
| PFE-750CAB | Fume-Air™ 750 with no arm assembly designed for permanent central duct systems, includes HEPA filter |
| Filters | |
| PFE-2412HF | HEPA filter 24" x 24" x 11.5" |
| PFE-2424PF | Pre-filter pad 24" x 24" x 1" (pkg. of 10) |
| PFE-2424C | Charcoal impregnated pre-filter pad, used with PFE-2424PF 24" x 24" x 1" (pkg/10) |
| PFE-750LK | Light kit for PFE-750-8 Fume Hood |

Important Welding Fume Health Standard Change:

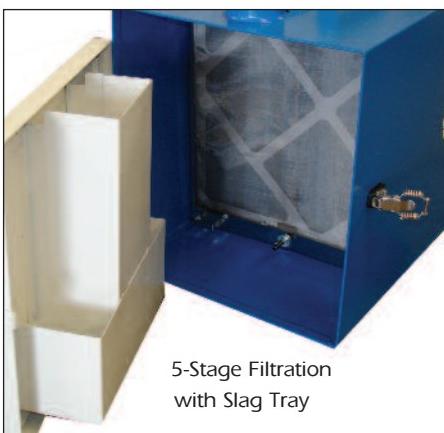
Effective May 30, 2006, OSHA lowered the PEL for Hexavalent Chromium and its compounds called Hex Chrome from 52 to 5 micrograms per cubic meter. This standard affects all general industry, shipyards, and construction industry activities with regard to welding on stainless steel and painted surfaces. The new standard necessitates source capture of these extremely harmful compounds with the use of HEPA filtered portable welding fume extractors. (FED REG 71:10099-10385)

Did You
Know?

Specifications

- 2 each, 115 VAC, 800 watt vacuum motors with 15amp overload protector
- Final stage HEPA filter, 99.97% at 0.3 micron
- 70 dbA noise level at 3 feet w/ built-in noise suppressor
- 230 cfm flow rate - variable speed
- Fire retardant, 10 ft, flexible
- Dual handle assembly
- Three pleated intermediate filters 2.5" ID hose supplied with 2.5" hose coupler for adding additional hose
- 5" fume capture hood with magnetic base stand supplied
- 5-stage filtration
- Stainless steel spark screen
- Removable slag tray
- Size: 28.5" L x 15" H x 18.5" W
- Weight: 57 lbs.

HEPA Filtered for Hazardous Welding Applications



Fume-Air™ 230 Designed for Light Duty, Short Duration Welding

Air Systems' small HEPA filtered portable fume extractor, Model PFE-230, provides 230cfm flow through a 5" hood and magnetic base stand. Ideal for many small welding and soldering applications where large cabinet style fume extractors are not practical, such as, spot or bench top welding. The PFE-230 features removable slag tray, spark screen, 3 pleated pre-filters and a final HEPA filter (99.97% at 0.3 micron).

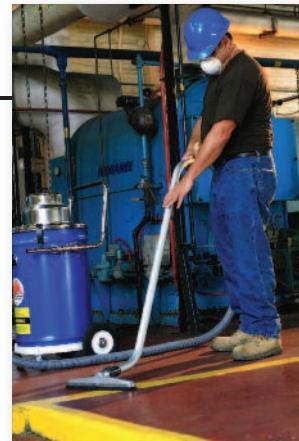


| Model No. | Description |
|----------------|---|
| PFE-230 | Portable Fume Extractor - complete with hose, filters, and accessories |
| Filters | |
| PFE-230-F1 | Stainless Steel Filter - captures up to 95% of the spark and steel chips down to 1-2 microns |
| PFE-230PF | Pleated Filter - 12" x 12" x 2" MERV 7 rated, 70% efficient [3 filters required] |
| PFE-230-HF | Pleated HEPA filter 12" x 12" x 5 7/8" captures 99.97% of the 0.3 micron particles. DOP certified |
| SVB-LCRT | Mobile steel cart with Storage Box |

Optional Cart holds Model PFE-230 and provides a storage cabinet for welding supplies. Cart is made of steel with black powder coat paint, front swivel casters and rear locking casters.

Electric HEPA Filtered Vacuums

Hazardous material vacuums are equipped with a HEPA filter system consisting of a certified absolute HEPA filter, a double layer intermediate micro filter, and a totally enclosed 2-ply disposable paper filter bag. The HEPA filter has a steel outer casing and micro-fibered glass paper filter media separated by corrugated aluminum sheeting that is encased in a protective steel screen. All HEPA filters are rated with a minimum efficiency of 99.97% at 0.3 microns. They are tested using the HOT DOP method @ 100cfm, UL 586 certified, maximum 1" resistance. Models AV-2 and AV-15 motor heads are provided with a remote exhaust port for 1.5" or 2.0" hose. All motors have a 2 year warranty.



Models AV-2, AV-5, and AV-15 are shipped with a HEPA filter, an intermediate pre-filter, a 2-ply disposable paper filter bag, and tool kit. The tool kit includes, 5 ft. curved steel wand, 10 ft. vacuum hose with end cuffs, crevice tool, inlet swivel connector and hard floor brush. An optional wet conversion kit converts the dry vacuum for liquid pick up (not available on Model AV-4POLY).

All HEPA filters meet or exceed the following standards:

- IEST-RP-CC007 • UL-586
- MILF-561079 • ANSI-2-92



Contractors Model
AV-4POLY



AV-2



AV-5
with power head plug



AV-15
w/ Optional Auto
Shut-off for Wet Pickup

Specifications

| | |
|----------|--|
| AV-4POLY | 120 VAC, 60 Hz, 1.3 HP, by-pass, 7.5 amps, 900 watts, 94cfm, 84" water lift, 4 gallon recovery, 6 gallon polyethylene tank, 30ft/18-3 power cord with plug, 78dbA, 10 ft. hose (1 1/4") supplied. Motor head has a 2 year warranty. Includes all filters and tool kit. (Uses pneumatic beater bar). |
| AV-2 | 120 VAC, 60 Hz, 1.3 HP, 2 stage by-pass, 7.5 amps, 900 watts, 94cfm, 84" water lift, 2 gallon recovery, 3 gallon stainless steel tank, 30ft/18-3 power cord with plug, 78dbA, 10 ft. hose (1 1/2") supplied. Motor head has a 2 year warranty. Includes all filters and tool kit. |
| AV-5 | 120 VAC, 60 Hz, 1.3 HP, 2 stage by-pass, 7.5 amps, 900 watts, 94cfm, 84" water lift, 5 gallon recovery, 7 gallon stainless steel tank, 30ft/18-3 power cord with plug, 78dbA, 10 ft. hose (1 1/2") supplied, on/off switch, MIL SPEC water dump valve. Motor head has a 2 year warranty. Includes all filters, tool kit, handles and wheel kit. (Electric beater bar option, Model AV-33150 only). |
| AV-15 | 120 VAC, 60 Hz, 2.3 HP, 2 stage by-pass, 11 amps, 1320 watts, 115cfm, 110" water lift, 15 gallon recovery, 20 gallon stainless steel tank, 30ft/14-3 power cord with plug, 10 ft. hose (1 1/2") supplied, 78dbA, on/off switch, MIL SPEC water dump valve. Motor head has a 2 year warranty. Includes all filters, tool kit, handles and wheel kit. (Electric beater bar option, Model AV-33150 only). |

NOTE: Optional voltage and Hertz available. Consult customer service for details.

Did You Know?

All of our Electric HEPA Vacuums meet the EPA's New RRP (Renovation, Repair, and Painting Regulations) 40CFR, Part 745, Subpart E. Models AV-5 and AV-15 are supplied standard with an external electric receptacle to operate the optional beater bar power head for use on lead and asbestos abatement projects.

Electric vacuums are listed.

| Model No. | Description |
|---------------------------------|---|
| AV-4POLY | 4 gallon recovery, 1.3 HP motor, HEPA, polyethylene tank, complete with wand, accessory tools, and filters. Pneumatic beater bar available. |
| AV-2 | 2 gallon recovery, 1.3 HP motor, HEPA, stainless steel tank, complete with wand, accessory tools, and filters. |
| AV-5 | 5 gallon recovery, 1.3 HP motor, HEPA, stainless steel tank with floor casters and handles, complete w/ wand, accessory tools, and filters. Fitted with a power nozzle receptacle |
| AV-15 | 15 gallon recovery, 2.3 HP motor, HEPA, stainless steel tank, cart, wand, accessory tools, and filters. External electric receptacle for beater bar option. |
| AV-5PTE | 5 gallon recovery, 1.3 HP motor, HEPA, polyethylene tank, wheels, wand, accessory tools, and filters. External electric receptacle for beater bar option. |
| AV-15PTE | 15 gallon recovery, 2.3 HP motor, HEPA, polyethylene tank, cart, wand, accessory tools, and filters. External electric receptacle for beater bar option. |
| AV-55 | 55 gallon drum lid assembly with HEPA filter, 1.5" hose connection, and 2.3 HP motor |
| Back-Pack Electric Model | |
| AV-2BP | 2 gallon HEPA stainless steel vacuum with back pack frame |

Environmental Control

Pneumatic HEPA Vacuums - For Hazardous Locations



AV-2PBP

Pneumatic HEPA Vacuums

Pneumatic powered vacuums are ideal for working in wet environments or where long lengths of vacuum hose are required. Air motors require no maintenance and contain no moving parts. A built-in pressure relief valve restricts water lift to 160" to prevent tank collapse. An on/off flow valve and pressure gauge are provided. Spark-free air motor.



AV-15P



AV-5P

Specifications

- Inlet Pressure: 80 psi with 1/2" I.D. hose
- Inlet Flow: 70 cfm required
- Vacuum Pressure: 250" water lift maximum, adjusted to 160" water lift with relief valve
- Vacuum Flow: 100 - 170 cfm based on inlet pressure
- Noise Level: 75dbA @ 90 psi inlet pressure
- Tank: Stainless Steel

| Model No. | Description |
|-----------|--|
| AV-2P | 2 gallon recovery, pneumatic motor, stainless steel tank, complete with wand, filters, and accessories |
| AV-5P | 5 gallon recovery, pneumatic motor, stainless steel tank, wand, accessory tools, and filters |
| AV-15P | 15 gallon recovery, pneumatic motor, stainless steel tank, cart, wand, accessory tools, and filters |
| AV-55P | 55 gallon drum lid assembly with HEPA filter, 1.5" hose connection, and pneumatic motor |
| AV-2PBP | Back-Pack Pneumatic Model 2 gallon, pneumatic motor, stainless steel vacuum with back pack frame |

See Page 69 for Replacement Bags, Filters and Accessories

Conductive Pneumatic HEPA Vacuums Safely Remove Potential Static Charge Build-up

- Pneumatic spark free vacuum motor
- All aluminum non-sparking tools and 2-piece aluminum wand
- 10 ft., 1.5" Conductive Vacuum hose with cuffs (grounds to tank)
- Motor head has grounding wire attached to the recovery can
- 25 ft. ground wire is attached to the vacuum recovery can to attach to a grounded external device for static removal

Specifications

- Inlet Pressure: 1/2" I.D. hose - 80 psi
- Inlet Flow: 70 cfm required
- Vacuum Pressure: 250" water lift maximum, adjusted to 160" water lift with relief valve
- Vacuum Flow: 100 -170 cfm based on inlet pressure
- Noise Level: 75dbA @ 90 psi inlet pressure



AV-15P-CND



AV-55DD



AV-55P-CND

Note: AV-55P-CND is supplied with all ground wires connected, conductive hose, steel drum and a 55 gallon drum dolly

| Model No. | Description |
|------------|---|
| AV-2P-CND | 2 gallon recovery, pneumatic motor, stainless steel tank, complete with wand, filters, accessory tools and ground wires |
| AV-5P-CND | 5 gallon recovery, pneumatic motor, stainless steel tank, wand, filters, accessory tools and ground wires |
| AV-15P-CND | 15 gallon recovery, pneumatic motor, stainless steel tank, cart, wand, filter accessory tools and ground wires |
| AV-55P-CND | 55 gallon drum lid assembly with HEPA filter, 1.5" conductive 10ft hose, pneumatic motor, steel 55 gallon drum, drum dolly, filters, accessory tools and ground wires |
| AV-55DL | Drum lid includes 1.5" goose neck adapter (order motor, filters, and hoses separately) |
| AV-55DD | Drum Dolly - 55 gallon |

See Page 69 for Replacement Bags, Filters and Accessories

HEPA Vacuum Accessories



**Accessories Included with Vacuum Models
AV-2, AV-5 & AV-15**

1. HEPA filter
2. Intermediate filter (installed under HEPA filter)
3. 2-ply 5 micron rated paper recovery bag
4. Vacuum hose with end cuffs
5. Inlet swivel connector
6. Crevice tool
7. Hard floor brush
- * Curved wand – 5 ft. (not pictured)



Pneumatic Beater Bar



Electric Beater Bar

Other Accessories Available

8. Hose-to-hose coupler
9. Squeegee tool for water pick-up
10. Carpet tool
11. Round brush
12. Pneumatic motor head (fits 5, 15, & 55 gallon tanks)
13. Automatic water shut-off device with extension collar
14. Poly tool – adjustable roller height squeegee tool designed to pick up water from polyethylene sheeting
15. 55 gallon drum adapter – accepts 15 gallon electric or pneumatic motor head and HEPA filter



All of our Electric HEPA Vacuums meet the EPA's New RRP 40CFR, Part 745, Subpart E.

| Model No. | Description |
|-------------------------------------|--|
| Replacement Bags and Filters | |
| AV-2B | Paper recovery bags, 2 gallon, 5/package |
| AV-5I | Intermediate filter, fits AV-5 and AV-2 Series, 2/package |
| AV-2H | HEPA filter (99.97% UL), 2 gallon, 1 each |
| AV-5B | Paper recovery bags, 5 gallon, 5/package |
| AV-4B | Paper recovery bags, 4 gallon, 5/package |
| AV-5I | Intermediate filter, 2/package, fits AV-5 and AV-2 Series |
| AV-5H | HEPA filter (99.97% UL), 5 gallon, 1 each |
| AV-15B | Paper recovery bags, 15 gallon, 5/package |
| AV-15I | Intermediate Filter - 15 gallon - 2/package - fits AV-15 and 55 Series |
| AV-15H | HEPA filter (99.97% UL) - 15 gallon - fits AV-15 and 55 Series |
| Accessories | |
| AV-335150 | Electrically operated beater bar for AV-5 and AV-15 models |
| AV-4POLYTN | Pneumatically operated beater bar for AV-4POLY |
| AV-5WP | 5 gallon water pick-up with auto shut-off |
| AV-15WP | 15 gallon water pickup with auto shutoff (can be used on AV-55) |
| AV-55DD | 55 gallon drum dolly with wheels and handle |
| AV-55DL | Drum lid for 55 gallon drum, includes 1.5" goose neck adapter |
| AV-H10 | Vacuum extension hose, 1 1/2", 10ft. with cuffs |
| AV-H10CND | Vacuum hose, conductive, 10ft., 1 1/2" I.D., with cuffs |
| AV-H50 | Vacuum extension hose, 1 1/2", 50ft. with cuffs |
| AV-HC-1 | Hose-to-hose coupler, 1 1/2" hose, metal |
| AV-HN10 | Neoprene extension hose, 10ft., 1 1/2" with cuffs |
| AV-C1 | Hose cuff, 1 1/2" |
| AV-103 | 11" plastic crevice tool, 1 1/2" |
| AV-100 | Curved aluminum wand - 54", fits 1 1/2" hose |
| AV-6200 | Floor brush, 14" - fits 1 1/2" hose |
| AV-6203 | Water squeegee tool, 14", fits 1 1/2" hose |
| AV-102 | Carpet tool, 14", fits 1 1/2" hose |
| AV-101 | Inlet swivel connector, fits 1 1/2" hose |
| AV-105 | Goose neck hose adapter for 55 gallon drum lid - fits 1 1/2" hose |
| AV-3RB | 3" round brush, 1 1/2" connector |
| AV-31AB | 2" x 56" aluminum wand, curved |
| AV-314 | 2" aluminum floor tool |
| AV-208 | 2" x 15" crevice tool, aluminum |
| AV-HC-2 | Hose-to-hose coupler, 2" hose, metal |
| AV-C2 | Hose cuff, 2" |
| AV-2360 | 2" inlet swivel connector |
| AV-H10-2 | 2" extension hose, 10ft. with cuffs |

Note: Vacuum hose can be ordered to any desired length.



FILL COMPRESSOR QUOTE REQUEST

Please fill out as completely as possible and fax back to (800) 247-5850.
If help is required, please contact us Monday - Friday 8AM - 5PM EST at (800) 866-8100
www.airsystems.com

Contact Information

Contact Name: _____ Telephone Number: _____
Company Name: _____ Fax Number: _____
Address: _____ Email Address: _____

City: _____ Cellular Number: _____
State: _____ Zip Code: _____ Method of Contact:
Phone Fax Email

Fill Compressor

1. Would you prefer a mobile or stationary system? Portable Stationary
Trailer Mounted Skid Mounted
2. Which power source would you prefer? 1-Phase Electric 3-Phase Electric
Gasoline Diesel
If electric: Voltage: 208 VAC 230 VAC 460 VAC Hertz: 60 Hz 50 Hz
3. What pressure SCBA/SCUBA cylinders do you need to fill?
2216 PSI 3000 PSI 4500 PSI 5000 PSI
4. What is the maximum number of these cylinders to be filled per day (per use)?
0-5 6-10 11-14 15-19 20-24 25+
5. What is the CFM output _____ cfm and pressure _____ psi required?
6. Would you like a carbon monoxide monitor installed? Yes No

Fill Station

1. What kind of fill station is preferred?
NFPA-1901 Compliant Full Containment Partial Containment None
2. If none, what length fill whip is required? 5 Ft. 10 Ft. 15 Ft.
25 Ft. 50 Ft. 100 Ft.
3. What kind of control panel is required? Cascade-Style Bulk-Style
4. Do you need safety fill adapters? Yes No
If yes, which pressure set(s) will you require? 2216 PSI 3000 PSI 4500 PSI
5. How many SCBA's would you like to fill simultaneously? One Two Three

Air Storage

1. Will you be purchasing an air storage system? Yes No - Using Existing Cylinders
No - Not Using Storage
If you are using existing cylinders, do you still need connection hardware? Yes No
2. Will you prefer high pressure flexible whips or rigid stainless steel tubing?
Flexible Whips Rigid Stainless Steel
3. Storage Rack preferences: Vertical Horizontal Wall Mountable Free Standing
4. How many storage cylinders would you like in this system? 2 4 6 8 10

Cut Here and Fax to 1-800-247-5850



PLANT AIR COMPRESSOR QUOTE REQUEST

Please fill out as completely as possible and fax back to (800) 247-5850.
If help is required, please contact us Monday - Friday 8AM - 5PM EST at (800) 866-8100
www.airsystems.com

Contact Information

Contact Name: _____ Telephone Number: _____
Company Name: _____ Fax Number: _____
Address: _____ Email Address: _____
City: _____ Cellular Number: _____
State: _____ Zip Code: _____ Phone Fax Email

System Requirements

1. This system will need to be: Portable Stationary

If Stationary, this system will be permanently located Indoors Outdoors

2. What are the power requirements for this system?

1-Phase Electric 3-Phase Electric Gasoline Diesel

If electric, what are the voltage requirements?

115 VAC 208 VAC 230 VAC 460 VAC 60 Hz 50 Hz

3. What type of respirator is being used?

Pressure Demand Mask Continuous Flow Mask Continuous Flow Hood

4. What are the flow and pressure requirements? _____ cfm @ _____ psi

5. Are cooling tubes being used (i.e. Vortex)? If so, what are the flow and pressure requirements?
_____ cfm @ _____ psi

6. How many workers do you anticipate using this system at any given time? (quote maximum) _____

7. What other types of devices are you planning to use? (pneumatic tools, air vests, etc.)

8. Will remote air manifolds (point-of-attachments) be required? Yes No

9. Number of remote air manifolds required? 1 2 3 4 5 6 Other:

10. Number of outlets desired per manifold? 1 2 3 4 5 6 Other:

11. Will the remote air manifold need to be: Portable (Case Mounted) Stationary (Wall Mounted)

12. Will audible and/or visual remote alarms be required? Yes No

If Yes, Audible Visual Both

13. Will this system be used in an IDLH (Immediately Dangerous to Life or Health) environment? Yes No

14. Are there any special environmental conditions that may exist where the system is located?
(i.e. rain, chemicals, vapors, dust, heat, cold, etc) _____

-----Cut Here and Fax to 1-800-247-5850-----

WARRANTY DISCLAIMER

Air Systems' manufactured equipment is warranted to the original user against defects in workmanship or materials under normal use for one year after date of purchase. Any part which is determined by Air Systems to be defective in material or workmanship will be, as the exclusive remedy, repaired or replaced at Air Systems' option. This warranty does not apply to electrical systems or electronic components. Electrical parts are warranted, to the original user, for 90 days from the date of sale. During the warranty period, electrical components will be repaired or replaced at Air Systems' option. Airline monitors are warranted for two years from date of purchase. Carbon monoxide sensors are warranted for two (2) years; oxygen sensors are warranted for one (1) year from date of purchase.

NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER MATTER IS GIVEN BY AIR SYSTEMS IN CONNECTION HEREWITH. UNDER NO CIRCUMSTANCES SHALL THE SELLER BE LIABLE FOR LOSS OF PROFITS, ANY OTHER DIRECT OR INDIRECT COSTS, EXPENSES, LOSSES OR DAMAGES ARISING OUT OF DEFECTS IN, OR FAILURE OF THE PRODUCT OR ANY PART THEREOF.

The purchaser shall be solely responsible for compliance with all applicable Federal, State and Local OSHA and/or MSHA requirements. Although Air Systems International believes that its products, if operated and maintained as shipped from the factory and in accordance with our "operations manual", conform to OSHA, MSHA, or NFPA requirements, there are no implied or expressed warranties of such compliance extending beyond the limited warranty described herein. **Product designs, specifications, and prices are subject to change without notice.**

Air leaks are not covered under warranty except when they result from a defective system component, i.e. an on/off valve or regulator or upon initial delivery due to poor workmanship. Air leaks due to poor delivery or damage will be covered under delivery claims. Minor air leaks are part of routine maintenance and service and are the responsibility of the customer just as filter and oil changes.

DISCLAIMER OF SAFE DELIVERY: **IMPORTANT NOTICE – WE DO NOT GUARANTEE SAFE DELIVERY**

1. Our terms of sale are FOB our factory – the responsibility for damage in transit is the carrier's, whether it is visible damage or concealed damage.
2. Inspect truck shipments immediately. Insist that visible damages be indicated on your copy of the freight bill.
3. Claims for damages must be made immediately by you to the truck carrier.
4. **IN CASE OF DAMAGE BY UPS OR FEDEX, CALL AIR SYSTEMS' REPAIR SERVICE FOR ASSISTANCE. DO NOT RETURN DAMAGED GOODS OR DISPOSE OF ORIGINAL PACKAGING MATERIALS UNTIL INSPECTED BY THE CARRIER.**
5. Merchandise shortage must be reported within 10 days of receipt of goods.

MERCHANDISE RETURNS

No equipment can be returned without prior factory authorization and return freight must be prepaid. Call Repair Service Dept. toll free: 1-800-866-8100 or 757-424-3967 to obtain a return authorization number. Equipment returned under 90 days must be in like new condition in order to receive credit. A return authorization form will be faxed to you for use as your return merchandise packing slip.

PATENT AND TRADEMARK DISCLAIMER

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CUSTOM APPLICATIONS

We welcome any custom design applications to meet your specific needs. We will provide technical drawings and installation recommendations to ensure proper utilization of equipment. We feel that this phase of our business is one of the most important services to our distributors and customers. Custom products, once approved by the customer and delivered, are not returnable for credit.

Look What's Inside

Grade-D Air Filtration

| | |
|--|-------|
| Breathing Air Basics - Training..... | 1-4 |
| Portable Systems - The Breather Box™ | 5 |
| Fixed Systems - Panel Mounted..... | 6 |
| Auto-Air™ Breather Box™ | 7-8 |
| Blast-Air™ Cart | 9 |
| Airline Monitors..... | 4, 10 |
| Point-of-Attachments (POA) | 11 |
| Accessories..... | 12-14 |
| Air Quality Testing..... | 14-15 |
| Custom Breathing Air Systems | 16 |

Breathing Air Compressors

| | |
|--|-----------|
| Portable, Low Pressure | 17-18 |
| Ambient Air Pumps..... | 19-20 |
| Personal Cooling - The Cool-Box™ | 21 |
| Understanding Quick Connect Fittings..... | 22 |
| Stationary, Low Pressure..... | 23-24 |

High Pressure Breathing Air

| | |
|------------------------------------|-------|
| High Pressure, Filling | 25 |
| Fragmentation Fill Stations | 26 |
| Cascade Fill Assemblies | 27 |
| Cascade Breathing Assemblies | 28 |
| Accessories..... | 28-29 |
| Cylinder Storage Racks..... | 30 |

Air Cylinder Carts

| | |
|--|--------|
| MULTI-PAK™ Small Cylinder Carts..... | 31 |
| MULTI-PAK™ Large Cylinder Carts..... | 32 |
| Ergo® Air Carts | 33 |
| PORTA-PAK™ Cart Series | 34 |
| Air-Wagon™ Large Cylinder Carts | 35 |
| Custom High Pressure Carts and Trailers .. | 36, 38 |

Customer Service 1-800-866-8100 or 1-757-424-3967

Air Systems International, Inc. Corporate Headquarters

829 Juniper Crescent
Chesapeake, Virginia 23320
Toll Free U.S.A. and Canada: 1-800-866-8100
Phone: (757) 424-3967

Toll Free Fax: 1-800-247-5850
Fax: (757) 424-5348
Email: sales@airsystems.com

Catalog Request: catalog@airsystems.com



Canada

Pacesetter Sales & Associates
Manufacturer's Representative
20 Arthur Hall Drive
Sharon, ON L0G 1VO Canada
Phone: 1-905-478-8042
Email: clindsay@pacesettersales.com
www.pacesettersales.com

Distributed By:

Vendedores de Fábrica Para Centroamerica, México, Sudamérica Safety Sales International, LLC

Manufacturer's Representatives
Phone: 1-704-366-0589
Phone: 1-704-469-3064
Phone: 1-704-831-8284
Fax: 1-704-367-3413

Email: sabrina.hiller@safetysalesinternational.com
gilkana.molina@safetysalesinternational.com
liliana.cronenbold@safetysalesinternational.com